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SCH-a870 Series

P O R T A B L E

T r i - M o d e

M o b i l e P h o n e

User Guide

Please read this manual before operating your phone, and keep it for future reference.

ZB15_PMa870_051706_F5

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Printed in Korea

GH68-08345A

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Section 1: Getting Started

Topics Covered

- Turning Your Phone On and Off
- Setting Up Voicemail
- Understanding this User Manual

This section allows you to start using your phone by activating your service, setting up your voicemail, contacting customer support, or getting an understanding of how this manual is put together.

Turning Your Phone On and Off

Turning Your Phone On

1. Open the flip, then press END.

Note: As with any other radio-transmitting device, do not touch the internal antenna as it affects call quality and may cause the phone to operate at a higher power level than is necessary. The internal antenna is located along the top on the back side of your phone.

2. Once the phone finds a signal, the time, date, and day appear in the display.

If your phone is outside the Verizon Wireless coverage area the roaming icon appears in the top of the display.

Turn Your Phone Off

Press and hold END for two or more seconds. Your phone powers off.

Setting Up Voicemail

Voicemail allows callers to leave voice messages, which can be retrieved any time.

Note: Once your voicemail account has been set up, you can use the Voicemail selection 7 (under the Messaging menu) to view details of voice messages in your voicemail box.

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Voicemail Setup

1. In standby mode, press and hold the 1 key or press *, 8, 6, SEND.
2. Follow the prompts in the new user tutorial to setup your mailbox.

Listen to Voicemail

1. In standby mode, press and hold the 1 key or press *, 8, 6, SEND.
2. You are then prompted to enter your password followed by # key.
3. Follow the recorded prompts to listen to messages, change administrative options, and so on.

Understanding this User Manual

The chapters of this manual generally follow the same order as the menus and sub-menus in your phone. A robust index for quick reference to most features begins on page 189.

Also included is important safety information that you should know before using your phone. Most of this information is near the back of the guide, beginning on page 153.

Notes and Tips

Throughout this guide are icons and text that are set apart from the rest. These are intended to point out important information, quick methods for activating features, to define terms, and more. The definitions for these methods are as follows:

- **Notes:** Explain alternative options within the current feature, menu, or sub-menu.
- **Tips**: Provide quick or innovative methods for performing functions related to the subject at hand.
- **Important**: Points out important information about the current feature that could affect performance, or even damage your phone.

Section 2: Understanding Your Phone

Topics Covered

- Features of Your Phone
- Front View of Your Phone
- Command Keys
- Understanding the Display Screen
- Battery
- Phone Memory

This section outlines some key features of your phone. It also displays the screen and the icons that are displayed when the phone is in use.

Features of Your Phone

- Domestic and international voice services (available on participating networks).
- High speed data (CDMA 2000 1x Technology)
- Global Positioning (GPS) Technology
- Personal Information Management (PIM) Functions
- Picture (PIX) Messaging
- TXT Messaging
- VibeTonz® Ringtones
- E-mail Messaging
- Mobile IM
- Chat
- VGA (300K Pixel) Camera
- Advanced Speech Recognition
- Speakerphone
- 64MB Phone Memory (30MB of Actual User Memory)
- Bluetooth® Wireless Technology **

** The SCH-a870 supports the wireless handsfree profile, serial port profile, and dial-up networking profile for Bluetooth® wireless technology. The SCH-a870 does not support Bluetooth OBEX profiles. Go to www.verizonwireless.com/bluetoothchart to check vehicle/accessory compatibility.

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Front View of Your Phone

The following illustrations show the main elements of your phone:

Open View

Features

1. **Earpiece**: The earpiece allows you to hear the other caller.
2. **Display Screen Icons**: Indicates the status of your phone, including status icons, message indicators, signal strength, etc.
3. **Navigation Keys**: This key allows you to scroll through the phone menu options.
4. **Left Soft Key**: This key is used to navigate through menus and applications by selecting the choice available in the Left Soft key Option.
5. **Send Key**: Allows you to place or receive a call. In standby mode, press the key once to access the recent call log.
6. **Clear Key**: Deletes characters from the display when you are in text entry mode. Press to return to the previous menu or screen when navigating features on your phone.
7. **Voicemail Key**: In standby mode press and hold to launch Voicemail.
8. **Special Function Keys**: Enters special characters. Performs various functions.
9. **VoiceSignal Key**: In standby mode press and hold to launch VoiceSignal.
10. **Power/Accessory Connector**: The power/accessory interface connector is used to plug in the charging accessories and also connect any available accessory cables to your phone.

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11. **Microphone**: The Microphone allows the other caller to hear you clearly when you are speaking to them.
12. **Alpha-numeric Keys**: Use these keys to enter numbers, letters, and characters.
13. **End Key**: Ends a call. If you press and hold the END key, the power goes On or Off. When you receive an incoming call, press to send the call to voicemail.
14. **Right Soft Key**: This key is used to navigate through menus and applications by selecting the choice available in the Right Soft key Option.
15. **Center/OK Key**: Pressing when navigating through a menu accepts the highlighted choice in a menu.
16. **Speaker**: Ringtones and Sounds are played through the speaker.

Closed View

Features

1. **Headset Jack**: Allows you to plug in an optional headset for safe, convenient, hands-free conversations.
2. **Flash**: The built-in flash has manual and automatic capabilities.
3. **Volume Key**: Allows you to adjust the master volume in standby mode (with the flip open) or adjust the voice volume during a call. To mute the ringer during an incoming call, press the volume key up or down. When the flip is closed, press and hold the key, and sub LCD displays.

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4. **External LCD Display**: External LCD shows signal and battery strength, alarm, time, day, and date. It also displays incoming calls or messages.
5. **Speakerphone Key**: Press this key to enable/disable the speakerphone option. During a call press and hold speakerphone key to enable/disable. When the speakerphone option is enabled/disabled you will here a tone.
6. **Camera Key**: Launches the Camera feature of your phone.
7. **Camera Lens**: The lens of your built-in camera.

Command Keys

Functions for the soft keys are defined by what appears above each in the display. There are two soft keys, the left soft key and the right soft key .

Left Soft Key

Some functions of the left soft key are as follows.

- In standby mode, press the **Message** (left) soft key to open the Message menu.
- When the left soft key function is Settings, press the **Settings** (left) soft key to view settings for the feature.
- When the left soft key function is Edit, press the **Edit** (left) soft key to edit a Contact or Profile setting.

Right Soft Key

Some functions of the right soft key are as follows.

- In standby mode, press the **Contacts** (right) soft key to open your Contacts list.
- When the right soft key function is **Options**, press the **Options** (right) soft key to view more options for the current menu.

Clear Key

The **CLR** key is used to erase or clear numbers, text, or symbols from the display. You can also use to return to a previous menu or to return to standby mode from any menu.

- If you enter an incorrect character, briefly press to backspace (and delete) the character.
- To erase the previous word in a sentence, press and hold .
- To back up one menu level, briefly press .
- To return to standby mode from any menu, press and hold until you return to standby mode.

End Key

- Press and hold the **End** key to turn your phone on or off.
- Briefly press once to disconnect a call.
- Press to return to standby mode from any menu, or to cancel the last input.

Send Key

The **Send** key is used to answer calls, dial calls, and to recall the last number(s) dialed, received, or missed.

- Press once to answer calls.

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- Enter a number and briefly press SEND to make a call.
- Briefly press SEND in standby mode to display a list of recent calls to and from your phone.
- Press SEND twice in standby mode to call the most recently dialed, received, or missed number.
- Press SEND to pick up a waiting call. Press SEND again to switch back to the other call.

Navigation Key

Use the directional keys on the navigation key to browse menus, sub-menus, and lists. Each key also acts as a shortcut to launch applications. The down navigation key is user-definable.

Speakerphone Key

Use the speakerphone key to switch from using the earpiece to the speakerphone before or during a call. Use the volume keys (located on the right side of your phone) adjust the volume. Press the speakerphone key to enable and disable the speakerphone option.

Understanding the Display Screen

The top line of the display is reserved for icons that indicate network status, battery power, signal strength, and more. The following table lists some display icons and their descriptions.

Display icons

Signal Strength: Always appears when your phone is on and indicates the current signal strength. More bars indicate a stronger signal.

OFF **Standalone Mode**: Appears when Standalone Mode is on. When on, all RF functions for your phone are disabled, and you cannot use your phone to place or receive calls.

Roaming: Your phone is outside your home area. While roaming, another wireless provider may be handling your call. The service rate for the call may be higher than those made from within your home area. Please refer to Verizon Wireless for roaming rates.

D **Digital**: Appears when your phone is receiving digital data.

A **Analog**: Appears when your phone is receiving analog data.

1X **1X Protocol**: Indicates your phone is using the CDMA 1X protocol.

Note: 1X protocol is available only in the Verizon Wireless network.

S **SSL**: Indicates the secure socket layer is active transmits your communications over the internet in an encrypted format.

P **Voice Privacy**: Prevents eavesdropping over a CDMA traffic channel.

Phone Lock: Indicates your keypad is locked.

No service: Your phone cannot find a signal because you're outside a service area. You cannot make or receive calls. Wait for a signal or move to an open area to find a signal. This indicator always appears when you first turn on your phone and disappears once service is located.

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Dormant: Indicates no incoming or outgoing data.

Voice Call: Indicates a call in progress. When dialing a number, this icon flashes until the call connects.

Data Call: Indicates a call in progress. When dialing a number, this icon flashes until the call connects.

E911 Only: Global Positioning Service (GPS) for 911 is set to On for emergency calls only.

Location On: Global Positioning Service is set to On for location and 911 calls.

Bluetooth On: Indicates that Bluetooth wireless technology is active.

Bluetooth Connected: Indicates Bluetooth wireless technology is active and connected.

Bluetooth Active: Indicates that Bluetooth wireless technology is connected and receiving or pushing data.

Battery Level: More bars indicate a greater charge. When the battery is low, an empty battery icon flashes and the phone sounds an alert, which indicates your phone is about to shut down.

TTY: Indicates that TTY is enabled.

All Sounds Off: The ringer is silenced for all alerts, incoming calls, and incoming messages.

Alarm Only: Your phone will only ring when the set alarm sounds.

Vibrate On: Your phone vibrates upon receiving a call.

Speakerphone: Your phone switches to speakerphone instead of earpiece.

Missed Calls: Your phone displays this icon when calls are missed.

New Message: You've received a new text, page or web alert message. You're also notified of a new message by animations and sound. You have one or more unread voicemail messages in your voicemail box. (Only applicable on Wireless Network.)

Calendar Appointment: Your phone displays this icon when you have a calendar appointment scheduled.

Voicemail: You've received a voicemail message, page or web alert message.

Alarm On: Indicates that your phone has a set alarm.

Auto Answer: Automatic answer is enabled. Your phone automatically picks up calls after the designated time with stereo headset or bluetooth headset connected.

Dialogue boxes

Dialogue boxes prompt for action, inform you of status, or warn of situations such as low memory. Dialogue boxes and their definitions are outlined below.

- **Choice**
  - Example: "Save message draft?"
- **Reconfirm**
  - Example: "Delete all received messages?"
- **Performing**
  - Example: "Sending..." "Connecting..."
- **Completed**

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- Example: “Message sent successfully!”

- **Information**
  - Example: “New Message”
- **Error**
  - Example: “System Error!”
- **Warning**
  - Example: “Battery Low,” “Memory Full!”

Battery

Note: This phone comes packaged with a partially charged rechargeable standard Li-Ion battery and travel charger.

Important: Although the phone can be used while the battery is charging, the battery must be fully charged before first use, otherwise you could damage the battery.

Using A Non-Supported Battery

Samsung handsets do not support the use of a non-supported battery.

When using a non-supported battery you will hear a series of beeps and you will see a warning message that indicates “NON SUPPORTED BATTERY SEE USER GUIDE.” If you receive this warning, battery charging is disabled.

Samsung charging accessories (i.e. travel adapter, and cigarette lighter adapter) will only charge a Samsung approved battery.

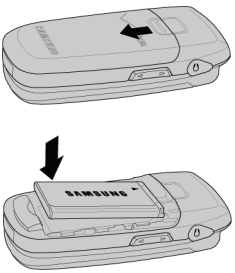
To continue use of your Samsung handset press OK.

Note: When using a non-supported battery, the handset can only be used for the duration of the battery life.

Important: Using a non-supported battery may cause damage to your phone. Use a Samsung supported battery only.

Install the Battery

1. Slide the battery cover down and lift up to remove it.
2. Insert the top end of the battery in the direction of the arrow printed on the battery into the phone housing. The gold contacts on the top of the battery should match up with those on the phone.



3. Push the bottom end of the battery down until it snaps into place.
4. Slide the battery cover up until it snaps into place.

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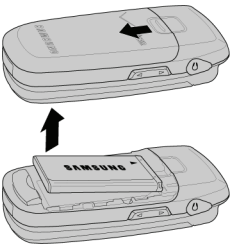
Remove the Battery

1. Slide the battery cover down and lift up to remove it.
2. Use your finger to lift the battery (bottom end first) up and away from the phone.



Charge the Battery

Your phone is powered by a rechargeable standard Li-ion battery. Only use Samsung-approved charging devices and batteries. Samsung accessories are designed to maximize battery life. Using other accessories may invalidate your warranty and may cause damage.

Travel Charger

The travel charger is a convenient, light-weight charger that rapidly charges your phone from any 120/ 220 VAC outlet.

1. Plug the large end of the travel charger into a standard 120/220 VAC wall outlet.
2. Insert the smaller end of the travel charger into the charger/ accessory connector at the bottom end of the phone.

Note: You can use your phone while charging, however, the battery charges faster if the phone is turned off.

Battery Indicator

The battery indicator in the upper-right corner of the display indicates battery power level. Four bars indicate a full charge, while an empty icon indicates an almost empty battery. Two to three minutes before the battery becomes too low to operate, a blinking empty battery icon appears and a tone sounds. If you continue to operate the phone without charging, it shuts down.

Phone Memory

The following file types can be saved to the phone memory:

Note: 30MB of memory is available for storing the file types listed below and downloaded applications.

- **My PIX:** Pictures you have saved from a PIX message, downloaded via the "Get It Now" application, or taken using your phone.
- **My Sounds:** Sounds recorded using your phone, or saved from a PIX message with sound attached.
- **My Ringtones:** Ringtones you have downloaded via the "Get It Now" application.

Section 3: Call Functions

Topics Covered

- Making a Call
- Answering a Call
- Recent Calls
- Roaming
- TTY
- VoiceSignal™

This section allows you to make or answer a call. It also includes the features and functionality associated with making or answering a call.

Making a Call

1. At the standby screen, enter the number you want to call using the keypad.
2. Press SEND.

Making Calls Using Contacts

Contacts are entries that you create to store names, numbers, and other information for people or groups of interest. If you've already entered information into your Contacts list, you can recall and dial the contact easily. See "Adding a Contact" on page 65 for information on creating contacts.

1. At the standby screen, press the right soft key **Contacts**.
2. Press the ▲ or ▼ keys on the side of your phone or the navigation up and down keys until the contact that you want to call is highlighted.

Tip: To quickly locate a name, press (or multi-press) any key on the keypad that corresponds to the first, second, and/or third letters of the contact's name.

3. When the desired contact is highlighted, press OK **VIEW**. Details for the contact appear in the display.
4. If the entry contains more than one number, use ▲ or ▼ to highlight the desired number.
5. Press SEND to call the number.

Answering a Call

When you receive an incoming call, the Incoming call screen appears in the display, press the SEND key to answer the call or **Ignore** ( ) soft key to send the call to voicemail, or **Quiet** ( ) soft key to silence the ringer.

Note: To change the answer options, see "Answer Options" on page 115.

Answering Call-Waiting Calls

- When you receive a call while on a call, the Call-Waiting screen appears in the display. You can press SEND and answer the new call or let the new call go to your voicemail.
- If you choose SEND and answer the incoming call, the original caller is placed on call waiting. To return to your original call when you finish with an incoming call, press the SEND Send key.

Recent Calls

When you place, miss, or receive a call, a record of the call is saved in Recent Calls, which is a listing of the different types of calls you can either receive or make. These types of calls are listed below.

- **Missed**: Displays any missed calls.
- **Received**: Displays any received calls that were answered.
- **Dialed**: Displays all outgoing calls made from your phone.
- **All:** Displays all missed, received, and outgoing calls made from your phone.
- **View Timers**: Displays the length of your calls.

Viewing Call Information

Recent Calls retains information such as the duration, date and time, and whether the call was received, dialed, or missed.

1. At the standby screen, press the SEND key.
2. Press the down navigation key to highlight the desired number.
3. Once the desired number is highlighted, press OK **OPEN**.
4. The following options appear in the display:
   - **"type" call:** Where "type" indicates if the call was missed, dialed, or received.
   - **Name:** If the caller is in your Contacts list, their name is listed here. This option only appears if the caller is in your Contacts list.
   - **Number:** Displays the telephone number as well as the appropriate icon to indicate mobile, work, or home number.
   - **Time:** The time of the call.
   - **Date:** The date of the call.
   - **Duration:** The duration of the calls made or receive.
5. Press the right soft key **Options** to display the following options:
   - **Save:** Save the number to your Contacts list.
   - **Details:** Shows details of caller if they are in your Contacts list. Otherwise, this option is not displayed.
   - **Erase:** Delete the call from Call History.
   - **Lock/Unlock:** locks or unlocks the entry to prevent accidental deletion.
   - **Erase All:** Delete the entire Call History list at one time.

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- **View Timers:** Select to view the call timers for your phone.

6. Press the down navigation key to highlight an option. Press OK to enter the highlighted option's sub-menu.

Call History Icons

When you view Recent Calls, an icon to the left of the number indicates the type of call.

Indicates a Missed call

Indicates a Dialed call

Indicates a Received call

Making Calls Using Call History

1. At the standby screen, press SEND then press up or down navigation key until the desired number is highlighted.
2. Press SEND to call the highlighted number. Or, you can press OK **OPEN**, then press SEND to call the highlighted number.

Creating or Updating Contacts Using Call History

1. At the standby screen, press SEND then press up or down navigation key until the desired number is highlighted.
2. Press the right soft key **Options**. **Save** is highlighted. Press OK.
3. Use the up or down navigation keys to highlight **Create New** or **Update Existing**. Press OK.

4. Use the up or down navigation keys to highlight one of the following options:
   - **Mobile 1**
   - **Mobile 2**
   - **Home**
   - **Work**
   - **Fax**
5. Press OK to add a new contact, and then enter information.
6. Use the navigation keys to enter additional information for the entry and then press OK **SAVE**.

Delete Call History Entries

1. At the standby screen, press SEND then press up or down navigation key until the desired number is highlighted.
2. Press the right soft key **Options**. A pop-up menu appears in the display.
3. Press the down navigation key to highlight **Erase** and press OK. Select **Yes** or **No** at the **ERASE ENTRY?** pop-up screen.
4. Press OK.

Delete All Call History Entries

1. At the standby screen, press SEND.
2. Press the right soft key **Options**. A pop-up menu appears in the display.

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3. Press the down navigation key to highlight **Erase All** and press OK. Select **Yes** or **No** at the **ERASE ALL ENTRIES?** pop-up screen.
4. Press OK.

Roaming

What is Roaming?

Your phone can roam on other digital networks. Roaming occurs when you travel outside a pre-designated coverage area. The roaming icon displays when roaming is active and extra charges may apply when making or receiving calls.

Note: Some features may be unavailable while roaming.

Roaming Options

The following roaming options are available:

- **Home Only**: Your phone is available for normal operation only in the designated coverage area.
- **Automatic A**: The preferred roaming list is used to acquire service. If no preferred systems are found, any digital "A" system is acquired.
- **Automatic B**: The preferred roaming list is used to acquire service. If no preferred systems are found, any digital "B" system is acquired.

Note: Contact your service provider for information regarding preferred systems.

To change your Roaming option, follow these steps:

1. Press OK **MENU**. Use the right navigation key to highlight **SETTINGS & TOOLS**.
2. Press 5 **Phone Settings**.
3. Press 6 **System Select**.
4. Use the up or down navigation keys to choose the setting you want, and press OK.

TTY

Your phone is fully TTY compatible. Connect the TTY equipment to the headset jack, which is located on the left side of the phone. Before you can use your phone with a TTY device, you'll need to enable TTY functions in the phone.

1. Press OK **MENU**. Use the right navigation key to highlight **SETTINGS & TOOLS**.
2. Press 6 **Call Settings**.
3. Press 3 **TTY Mode**. The TTY Mode screen displays.
4. A warning appears in the display stating **"ENABLING TTY WILL DISABLE HEADSET AUDIO. CONTINUE?"**

   Use the up or down navigation key to highlight **Yes** and press OK to proceed to TTY MODE screen.

   Use the up or down navigaton key to highlight **No** and press OK to return to **Call Settings** menu.
5. Use the up or down navigation keys to select one of the following:
   - **TTY Full**
   - **TTY + Talk**
   - **TTY + Hear**

- **TTY Off**

6. Press OK to make your selection. The **TTY Mode Set** screen displays.

VoiceSignal®

VoiceSignal is advanced speech recognition software that can be used to activate a wide-variety of functions on your phone. VoiceSignal software automatically voice activates all contacts for voice dialing and searching, no pre-recording or training needed. Speak phone numbers naturally to dial, and use voice commands to launch applications and navigate phone menus.

VoiceSignal Settings

You can adjust the settings and preferences for VoiceSignal by opening Voice Commands menu. Using this menu, you can change the following Voice Command features:

- Tips for adapting Digit Dial
- Digit Dial Adaptation
- Reset Digit Dial Adaptation
- Call Digit Dialing
- Call Name Dialing
- Send Text Msg.
- Name Lookup
- Opening Apps
- Checking Phone Status

To access the VoiceSignal Settings menu, follow these steps:

1. At the standby screen, press OK **MENU**. Use the right navigation key to highlight **SETTINGS & TOOLS**.
2. Press 2 abc **Tools**, then 1 **Voice Commands**, and 3 def **Voice Settings**.
3. Use the navigation keys to select the setting you want to change. The following options are available:

- **Choice Lists:** If VoiceSignal is not absolutely confident that it has correctly identified a name or number, it can display a choice list of up to three possibilities, and prompt you to confirm the correct one. You can control when choice lists appear by changing the Choice Lists setting to the following:
  - **Automatic:** VoiceSignal displays a choice list when it is not confident it has identified the correct choice from among multiple alternatives.
  - **Always On:** When there are multiple alternatives, VoiceSignal always displays a choice list.
  - **Always Off:** VoiceSignal never displays a choice list. Instead, the application picks the best from among the possible choices.
- **Sensitivity:** In VoiceSignal, sensitivity controls the balance between rejecting too much, which means the phone frequently does not recognize names, numbers, or commands, and rejecting too little, which means it frequently recognizes something even if nothing was said. When VoiceSignal rejects an utterance, it displays a message such as “Please repeat…” or “No match found.” If you frequently experience these messages, you might be able to get better recognition by adjusting the Sensitivity setting toward **Reject Less**. If you frequently experience

false activations (VoiceSignal detects a wrong match), you might be able to get better performance by adjusting the Sensitivity setting toward **Reject More**.

- **Digit Dialing:** Use the Digit Dialing menu to adapt digit dialing to your voice.
  - **Adapt Digits:** Lets you adapt digits, which can improve voice recognition of phone numbers. Adaptation takes about 180 seconds.
  - **Reset Digits:** Erases any digit adaptation you have done and resets digit recognition to the factory default. If you have not adapted digits, this option is grayed out.
- **Sound:** You can customize the VoiceSignal user interface by turning playback on or off for prompts, names, and numbers. You can also change the speed and volume of name playback.
  - **Prompts:** Turns playback on or off for prompts such as "SAY A COMMAND"
  - **Digits:** Turns playback on or off for digits, for example, when confirming a phone number.
  - **Names:** Turns playback on or off for names.
  - **Name Settings:** Adjusts the speed and volume of name playback.
- **About:** Displays information about VoiceSignal including version number, build number, and device number.

Adapting VoiceSignal

Voice dialing works well for most people without special adaptation. However, people with strong accents or unique voice characteristics may receive better results after adapting the system to match their voices.

You should adapt Digit Dial only if the system is frequently unable to recognize your speech. After you

adapt Digit Dial, your phone is customized to your voice, and your voice only. Others will not be able to use it unless they reset the phone to factory defaults.

Adaptation involves recording several digit sequences to adapt the system to the unique properties of your voice. The adaptation process takes about three minutes.

Tips for adapting Digit Dial

- Adapt digits in a quiet place.
- Make sure you wait for the beep before starting to speak.
- Speak clearly, and say each digit distinctly.
- If you make a mistake while recording a sequence of digits, or if there is an unexpected noise that spoils the recording, re-record that sequence.
- Only adapt digits if you regularly have problems with digit dialing. Once adapted, digit dialing will not work as well for other people using your phone.
- Adapt Digit Dial to your voice.

Digit Dial Adaptation

To access the Adapt Digits menu, follow these steps:

1. At the standby screen, press OK **MENU**. Use the right navigation key to highlight **SETTINGS & TOOLS**.
2. Press 2 **Tools**, then 1 **Voice Commands**.
3. Press 3 **Voice Settings**, then 3 **Digit Dialing**.
4. **Adapt Digits** is highlighted. Press OK.
5. A short description of the Adapt Digits displays.
6. Read the description until you are comfortable to proceed, then press OK.

7. Your phone displays the first digit sequence and “Please say” plays through the speaker followed by the four digits appearing in the display.

   Wait for the beep and repeat the digits using your normal tone of voice.

8. After a moment, the phone plays back the recording and prompts “Did the recording sound ok?” If the recording was good, say “Yes.” If you need to re-record, say “No.”

   If you say “No,” the phone prompts you to pronounce the digits again. Wait for the beep and then re-record. Repeat this step until you’re satisfied with the recording.

9. After confirming that the recording sounds ok, repeat the recording process with the next set of digits. After ten sets of digits, the phone indicates that adaptation is complete.

Reset Digit Dial Adaptation

This option erases an adaptation and resets Digit Dial to its original state.

1. At the standby screen, press OK **MENU**. Use the right navigation key to highlight **SETTINGS & TOOLS**.
2. Press 2 abc **Tools**, then 1 **Voice Commands**.
3. Press 3 def **Voice Settings**, then 3 def **Digit Dialing**.
4. Highlight 2 abc **Reset Digits** and press OK. The Reset Digit Adaptation screen displays requesting confirmation of reset.

Note: If you have not performed the Adapt Digits function, the Reset Digits option will not be accessible.

5. Press OK to proceed. Digit Adaptation Reset is completed.

VoiceSignal Commands

The following is a list of functions that you can perform using VoiceSignal speech recognition on your phone.

- **Call <Name or #>:** Dial by saying a Name in your Contacts List or a Name and a Location (home, work, mobile).
- **Send Text<Name>:** Send a text message to a number or to someone in your Contacts List.
- **Send Picture <Name>:** Send a PIX message to a number or to someone in your Contacts List.
- **Lookup <Name>:** Open the contact record for any name in your Contacts List.
- **Go to <Menu>:** Open any application installed on your device.
- **Check <Item>:** Provides details of your coverage, signal strength, and battery level.

Call Name Dialing

To use Name Dial, you'll need to have entries stored in your Contacts list. See page 65 for information on creating a Contacts list.

1. In standby mode, press and hold the Talk key.
2. After a brief pause, a list of optional commands appears in the display and the audio prompt "Say a command" plays through the earpiece.

3. Say “Call” at a distance of 3-12 inches from the phone in a natural voice.
4. “Say the Name or Number” plays through the earpiece or speakerphone--if it is enabled.
5. To use Name Dialing, say the name of the contact that you want to dial.
6. The name that you said is repeated through the earpiece and your phone dials the number.
7. If VoiceSignal is not sure of the number that you said, a list of possible matches appears in the display.
8. You’re asked to confirm the correct number as VoiceSignal displays the results. Say “Yes” or “No” to confirm or reject the number when prompted.
9. The location is repeated through the earpiece and your phone dials the number.

Call Digit Dialing

Digit Dial allows you to dial any phone number by simply speaking the digits into the phone. No training is necessary, and Digit Dial is programmed to understand natural speech.

1. In standby mode, press and hold the 0+ key.
2. After a brief pause, a list of optional commands appears in the display and the audio prompt “Say a command” plays through the earpiece or speakerphone--if it is enabled.
3. Say “Call” at a distance of 3-12 inches from the phone in a natural voice.

4. “Say the Name or Number” plays through the earpiece.
5. To use Digit Dialing, say the area code and number that you want to dial into the microphone, clearly and naturally.
6. The number that you said is repeated through the earpiece and your phone dials the number.
7. If VoiceSignal is not sure of the number that you said, a list of possible matches appears in the display.
8. You’re asked to confirm the correct number as VoiceSignal displays the results. Say “Yes” or “No” to confirm or reject the number when prompted.

Name Lookup

To perform a name lookup, you’ll need to have some entries in your Contacts list.

1. In standby mode, press and hold the Voice key.
2. A list of commands appears in the display and the audio prompt “Say a command” plays through the earpiece or speakerphone--if it is enabled.
3. Say “Lookup” at a distance of 3-12 inches from the microphone. “Say the name” plays through the earpiece or speakerphone.
4. Say the name exactly as it is displayed in your Contacts list, first name followed by last name.
5. The contact name appears in the display with other information that you’ve entered for that contact.

Opening Apps

The example that follows instructs you how to open Internet Explorer. However, you can open any application on your phone using VoiceSignal.

1. In standby mode, press and hold the key.
2. A list of commands appears in the display and the audio prompt “Say a command” plays through the earpiece or speakerphone--if it is enabled.
3. Say “Go To” at a distance of 3-12 inches from the microphone. A list of options displays and a prompt of “Please choose” plays through the earpiece or speakerphone.
4. The menu option spoken opens.

Section 3

Section 4: Menu Navigation

Topics Covered

- Menu Navigation
- Menu Outline

This section explains the menu navigation for your phone. It also includes an outline of all the available menus associated with your phone.

Menu Navigation

Access menus using the navigation keys, two soft keys , or use a shortcut.

1. In standby mode press **MENU**. The first of several menus appear in the display.
2. Use the navigation keys to browse phone menus.
3. Press OK to enter the menu or sub-menu presently appearing in the display.

Return to the Previous Menu

Press CLR to return to the previous menu.

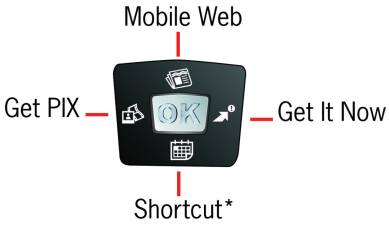
Navigate Using Shortcuts

You can also access menus and sub-menus using menu numbers. This method is often called a “shortcut.” To shortcut to a menu or sub-menu, press OK **MENU**, then enter the menu and/or sub-menu number(s) for the feature in question. Use "Navigation Key Shortcuts" on page 49, for looking up the menu shortcut number.

1. In standby mode, press OK **MENU**. The **CONTACTS** menu is launched.
2. Press the number of the menu, sub-menu, and so on to arrive at the desired feature.
3. Press OK **MENU**, then press 3 **Groups**, 2 **Business**.

Navigation Key Shortcuts

In standby mode, press a navigation key (as illustrated below) to launch its corresponding application.



*The Shortcut menu is set to Calendar by default, but it can be customized to select other functions instead.

In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 jkl **Phone Settings** 2 abc **Shortcut Key**. The shortcut key list displays. Use the navigation key to change the setting and press OK to save your selection.

The In-Use Option

Access numerous menus and features even while in a call.

Note: If the call is disconnected while accessing the In-Use Option, the In-Use Option disappears from the display and the phone eventually returns to standby mode.

1. While in a call, press the right soft key **Options**. The following menu items appear in the display.
   - **Message**: Open the Messages menu.
   - **Contacts**: Open the contacts to view.

- **Recent Calls**: Display your recent incoming, missed and outgoing calls.
- **Send DTMF**: Sends keypad tones.
- **Voice Privacy**: Prevent recipients of your calls from seeing your number on their display. Select from standard or enhanced options.
- **Location**: Identifies your location to the network. Change location setting to Location On or E911 Only
- **Voice Memo**: Record a voice memo.

2. Use the navigation key to highlight a menu. Press OK to open the highlighted menu or to activate the feature.

Menu Outline

The following list shows the menu structure and indicates the number assigned to each option.

GET IT NOW

1: Get Tunes & Tones
  1: Get New Ringtones
    1: Get New App.
  2: My Ringtones
    1: Get New Ringtones
      1: Get New App.
  3: My Sounds
    1: Record New
2: Get PIX
  1: Get New PIX
    1: Get New App.
  2: My PIX
  3: PIX Place
  4: Take PIX
3: Get Fun & Games
  1: Get New App.

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4: Get News & Info
5: Get Going
    1: Get New App.
6: Get Extras
    1: Get New App.

MESSAGING

1: New Msg
    1: TXT Msg
    2: PIX Msg
    3: Sketch Msg
    4: Postcard
2: Inbox
3: Sent
4: Drafts
5: Voicemail
6: E-Mail
7: Mobile IM
8: Chat

CONTACTS

1: New Contact
2: Contact List
3: Groups
    1: No Group
    2: Business
    3: Colleague
    4: Family
    5: Friends
4: Speed Dials

RECENT CALLS

1: Missed
2: Received
3: Dialed

4: All
5: View Timers

SETTINGS & TOOLS

1: My Account
2: Tools
    1: Voice Commands
        1: Voice Dial
        2: Menu Readout
        3: Voice Settings
    2: Calculator
        1: Normal
        2: Tip
        3: Converter
    3: Calendar
    4: Alarm Clock
    5: World Clock
    6: Stop Watch
    7: Notepad
3: Sound Settings
    1: Master Volume
    2: Call Sounds
        1: Call Ringtone
            1: My Ringtones
            2: My Sounds
        2: Call Vibrate
    3: Alert Sounds
        1: TXT Message
            1: Tone
                1: My Ringtones
                2: My Sounds
            2: Vibrate
            3: Reminder
        2: PIX Message

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- 1: Tone
  - 1: My Ringtones
  - 2: My Sounds
- 2: Vibrate
- 3: Reminder

3: Voicemail Msg
- 1: Tone
  - 1: My Ringtones
  - 2: My Sounds
- 2: Vibrate
- 3: Reminder

4: Device Connect

4: Keypad Volume

5: Earpiece Volume

6: Service Alerts
- 1: ERI
- 2: Minute Beep
- 3: Call Connect

7: Power On/Off
- 1: Power On
- 2: Power Off

8: VibeTonz

4: Display Settings

1: Banner
- 1: Personal
- 2: ERI Banner

2: Backlight
- 1: Display
  - 1: Duration
  - 2: Brightness
- 2: Keypad

3: Contrast

4: Wallpaper
- 1: Main Screen

1: My PIX
2: Pre-loaded PIX
2: Front Screen
1: My PIX
2: Pre-loaded PIX
5: Display Themes
6: Clock Format
1: Main Clock
2: Front Clock
7: Power On/Off
1: Power On
2: Power Off
8: Dialing Font
1: Size
2: Style
3: Hyphenation
5: Phone Settings
1: Standalone Mode
2: Shortcut Key
3: Language
4: Location
5: Security
6: System Select
7: NAM Selection
8: Quick Search
9: PC Connection
0: Time & Date
6: Call Settings
1: Answer Options
2: Auto Retry
3: TTY Mode
4: One Touch Dial
5: Voice Privacy

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- 6: Call Restrictions
  - 1: Outgoing
  - 2: Incoming
  - 3: Contacts
- 7: Data Settings
- 8: DTMF Tones
- 9: Ringer ID
- 0: Picture ID

7: Bluetooth
- 1: Add New Device

8: Memory
- 1: Memory Usage
- 2: My PIX
- 3: My Ringtones
- 4: My Sounds

9: Phone Info
- 1: My Number
- 2: SW Version
- 3: Icon Glossary

Section 4

Section 5: Entering Text

Topics Covered

- Changing the Text Entry Mode
- Using Word Mode
- Entering Upper and Lower Case
- Entering Symbols
- Entering Numbers

This section outlines how to select the desired text input mode when entering characters into your phone. This section also describes how to use the Word predictive text entry system to reduce the amount of key strokes associated with entering text.

Changing the Text Entry Mode

1. While composing a message in the Text area, press the right soft key **Options** to display the following options:

- **Add**: Allows you to add more information or multimedia items to your message.
  - **Graphics**: Lists preloaded and downloaded graphics to add to the message.
  - **Animation**: Lists preloaded and downloaded animations to add to the message.
  - **Sound**: Lists preloaded and downloaded sounds to add to the message.
  - **Quick Text**: Choose from up to 22 messages which include 12 pre-loaded messages.
- **Edit Text Format**: Change font size, text alignment, style, and color.
- **Save As Draft**: Save the message to your Draft folder.
- **Priority Level**: Save the message with a High or Normal priority.
- **Validity Period:** Save the message for the assigned period of time.
- **Deferred Delivery**: Save the message to be delivered at the assigned delivery date and time.
- **Enh. Delivery Ack**: Displays a pop-up screen notifying the message sent has been received.
- **Add To Contacts**: Save the recipients number to your Contacts as a new entry or add to an existing entry.

2. While composing a message, press left soft key **Abc** to display a pop-up menu with the following Text Entry Mode options:

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- **Word**
- **Abc**
- **ABC**
- **123**
- **Symbols**

Using Word Mode

Word recognizes the most commonly used word for any sequence of key presses and inserts that word into your message. It's much faster than the traditional method of text entry (Abc) and requires only one key press per letter of the word that you're spelling.

1. In standby mode, press the left soft key **Message**, then press **New Msg**, **TXT Msg** to compose a new text message.
2. Enter the phone number or email address of the recipient, then press the down navigation key to move to the Text field.
3. Press the left soft key **Abc** to display a pop-up menu containing text entry mode options.
4. **Abc** is highlighted by default. Use the up/down navigation keys to highlight **Word**, then press OK.

   Now, for practice, enter the word "Hello" into your message by pressing each of the following keys only once:

Word recognizes that the most frequently used word for the sequence that you just entered is "Hello." If more than one word shares the same sequence, Word provides the most common of the one. Press 0 to display other words in the dictionary, if available.

Entering Upper and Lower Case

- Enter characters while in **ABC** mode by pressing the key that contains the desired characters. For example press 4 for "G".
- Press the key repeatedly to cycle through other available characters for that key.
- Pause briefly when the desired character appears in the display to accept the character and therefore insert it into the message.
- Press # to enter a space.
- To cycle between uppercase, lower case, and initial caps for characters in **ABC** mode, briefly press *.

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Entering Symbols

Symbol mode enables you to enter symbols such as @ or % into a text message.

1. In standby mode, press the left soft key **Message**, then press **New Msg**, **TXT Msg** to compose a new text message.
2. Enter the phone number or email address of the recipient, then press the down navigation key to enter text.
3. Press the left soft key **Abc** to display a pop-up menu containing the text entry mode options.
4. **Abc** is highlighted by default. Use the up/down navigation keys to highlight **Symbols**, then press OK. The first of three screens containing symbols appears in the display.
5. Press **Prev** or **Next** to page through the other symbols, if necessary.
6. Enter the key that corresponds with the symbol that you wish to enter. For example, press 4 for an exclamation point (!) on the first page of symbols.
7. Repeat steps 3 through 6 to insert as many symbols into your message as desired.

Entering Numbers

Enter numbers into a text message while in number mode (**123**). See "Changing the Text Entry Mode" on page 58 for instructions on changing text entry modes.

1. In standby mode, press the left soft key **Message**, then press **New Msg**, **TXT Msg** to compose a new text message.
2. Enter the phone number or email address of the recipient, then press the down navigation key to enter text.
3. Press the left soft key **Abc** to display a pop-up menu containing the text entry mode options.
4. **Abc** is highlighted by default. Use the up/down navigation keys to highlight **123**, then press OK.
5. Enter the key that corresponds with the number that you wish to enter. For example, press 4 for the number **4**.
6. When you are finished adding numbers, press the left soft key **123** to change to another Text Entry Mode or press OK **SEND** to send your message.

Section 6: Understanding Your Contacts

Topics Covered

- Opening Contacts Menu
- Adding a Contact
- Adding Pauses
- Contact Groups
- Finding a Contact Entry
- Editing an Existing Contact Entry
- Deleting a Contact Entry
- Storing Numbers After a Call
- Speed Dialing
- Finding My Phone Number

This section allows you to manage your daily contacts by storing their name and number in your Contacts menu. Contact entries can be sorted by name, entry, or group.

Opening Contacts Menu

The Contacts menu provides access to powerful features such as adding Groups, and viewing the phone number assigned to your phone by Verizon Wireless.

1. In standby mode, press OK **MENU**. The **CONTACTS** menu displays.
   - **New Contact**: Add a number, or e-mail to your Contacts.
   - **Contact List**: Find a phone number by Name.
   - **Groups**: Add new or rename one of your five default groups.
   - **Speed Dials**: Set a speed dial for a contact.
2. Use the navigation key to highlight the **CONTACTS** sub-menu of your choice, then press OK.

Contacts Icons

You can assign multiple entries to a contact. The icons in the following table represent all available entry types

- **Mobile 1** icon. Enter a primary mobile number for the contact.
- **Home** icon. Enter a home number for the contact.
- **Work** icon. Enter the work number for the contact.
- **Email 1** icon. Enter an e-mail address for the contact.
- **Group** icon. Select an available group to associate with the contact.
- **PIX** icon. Select an available picture from My PIX Gallery to associate with the contact.
- **Ringtone** icon. Select a ringtone from My Ringtones or My Sounds to associate with the contact.

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Mobile 2 icon. Enter a secondary mobile number for the contact.

Fax icon. Enter a fax number for the contact.

Email 2 icon. Enter a secondary e-mail address for the contact.

Adding a Contact

When you add information to your Contacts, you can add it as a new entry or as an existing entry.

Method 1

1. In standby mode, press OK **MENU**, the **CONTACTS** menu opens.
2. Press 1 **New Contact** to enter the contact information**.**
3. Enter a name for the entry using the keypad.
4. Use the navigation key to highlight the appropriate type (**Mobile**, **Home**, **Work**, **E-mail**, etc.). Once highlighted, use the keypad to enter required information.

   Use the navigation key to highlight other type fields, if desired. Enter information using the keypad.
5. To assign a **Speed Dial** location after entering the number, press the right soft key **Options**. Highlight **Set Speed Dial** and press OK.

   Highlight an unassigned location and press OK **SET**. At the pop-up screen, use the navigation key to highlight **Yes** or **No** and press OK.

Note: Voicemail is assigned to Speed Dial location 1.

Note: You can assign a speed dial location to each number associated with the contact (**Home**, **Work**, **Mobile1**, **Mobile 2**, and **Fax**.).

6. When you're finished entering information for the entry, press OK **SAVE** to save the entry to your Contacts.

Method 2

You can add new numbers to the Contacts by simply entering the number while the phone is in standby mode, then following the necessary prompts to complete the process.

1. In standby mode, enter the number that you wish to save using the keypad, then press the left soft key **Save**. You're prompted to select from **Create New** or **Update Existing**.
2. Press 1 to enter the number as a **Create New**, or press 2 abc to append the number to **Update Existing**.
3. If you selected **Create New**, the following types are available.
   - **Mobile 1**
   - **Mobile 2**
   - **Home**
   - **Work**
   - **Fax**
4. If you selected **Update Existing**, proceed to step 8.

5. Use the up/down navigation keys to highlight the desired entry type (**Mobile**, **Home**, **Work**, **E-mail**, etc.) then press OK.
6. Enter a name for the entry using the keypad. Press the left soft key **Abc** if you wish to select a different method of text entry, such as Word, Abc, ABC, 123, or Symbols.
7. To assign a **Speed Dial** location, use the up/down navigation key to highlight the number you would like to assign to a **Speed Dial** location and press the right soft key **Options**. Highlight **Set Speed Dial** and press OK.

   Highlight an unassigned location and press OK **SET**. At the pop-up screen, use the navigation key to highlight **Yes** or **No** and press OK.

Note: Voicemail is assigned to Speed Dial location 1.

Note: You can assign a speed dial location to each number associated with the contact (**Home**, **Work**, **Mobile1**, **Mobile 2**, and **Fax**.).

8. When you're finished entering information for the entry, press OK **SAVE**. The entry is saved to your Contacts.
9. If you selected **Update Existing**, the Contact List opens in Search mode. Use the navigation key to browse through entries, or enter the name of the entry using the keypad. Once you've highlighted the entry you wish to append the number, press OK.

10. An UPDATE EXISTING pop-up screen with a selection list of entry types displays. Use the up or down navigation keys to highlight the desired type then press OK. The number is appended to the selected entry. Press OK **SAVE** to save the updated information for the contact.

Adding Pauses

Calls to automated systems often require a password or account number. Instead of manually entering numbers each time, store the numbers to your Contacts along with special characters called pauses.

- **Wait**: A hard pause stops the calling sequence until further input from you.
- **2-sec pause**: A two-second pause stops the calling sequence for two seconds and then automatically sends the remaining digits.

1. In standby mode, enter the number.
2. Press **Options** use the navigation key to highlight **Wait** or **2-sec Pause** and press OK.
3. When you're finished entering information for the entry, press **Save**. The entry is saved to your Contacts.
4. Continue with Step 2, Method 2 of **Adding a Contact**.

Note: Entering multiple two-second pauses extends the length of a pause. For example, two consecutive two-second pauses cause a total pause time of four seconds. Keep in mind pauses count as digits toward the 32-digit maximum length for a phone number in Contacts.

Contact Groups

You can place Contact entries into categories, called "**Groups**." Groups allow you to search your Contacts faster, quickly send messages to one or more group members, and more.

Note: By default, new entries to your Contacts are placed into No Group unless another group is specified.

View Groups

1. In standby mode, press OK **MENU**, then press 3 **Groups**. The following predefined groups appear in the display.
   - **No Group**
   - **Business**
   - **Colleague**
   - **Family**
   - **Friends**
2. Use the navigation key to highlight the desired group, then press OK to access the group and view its contents.

Move an Entry to Another Group

1. In standby mode, press the right soft key **Contacts**. Use the navigation key to highlight the contact you wish to move.
2. Press the left soft key **Edit**. Use the up/down navigation key to scroll to the Group field.
3. Press the left soft key **Set**. Choose from the following groups:
   - **No Group**
   - **Business**
   - **Colleague**
   - **Family**
   - **Friends**
4. Use the navigation key to highlight the group you want to associate to the contact, then press OK.
5. Press OK **SAVE**. The selection has been saved to the designated group.

Create a New Group

In addition to the five predefined groups already in your phone, you can create additional groups (a maximum of 30). New groups can be named anything you like as long as their names are within the 32-character limit.

1. In standby mode, press OK **MENU**, then press 3 **Groups**. Your existing groups appear in the display.
2. Press the left soft key **New**. A **NEW GROUP** pop-up menu displays with the “Enter New Name” highlighted.
3. Press OK **SAVE** to save. The Groups list now displays the new group added.

Send a Text Message to Members of a Group

Use Send Message in the Group feature to send a message to as many as 10 members of a group at once.

Note: Text messaging availability varies when roaming off the Verizon Wireless Network.

1. In standby mode, press OK **MENU**, then press 3 **Groups**. Your existing groups appear in the display.
2. Highlight the desired group name and press the right soft key **Options.** Highlight **Send TXT Msg** and press OK.
3. Use the down navigation key to highlight the contacts in the group to which you want to send a message. Press OK **MARK** to place a checkmark next to each selection to send messages to.
4. Press the left soft key **Done** after selecting up to 10 contacts.

Note: You can mark up to 10 members of a group for message distribution. If you try and mark an 11th member, you'll be notified that "MAXIMUM RECIPIENTS IS 10".

5. Press the down navigation key to place the cursor in the Text field.
6. Enter the content of your message using the keypad.
7. To send the text message, press OK **SEND**.

Send a PIX Msg to Members of a Group

Note: Only available within Verizon Wireless Enhanced Services Area.

1. In standby mode, press OK **MENU**, then press 3 **Groups**. Your existing groups appear in the display.
2. Highlight the desired group name and press the right soft key **Options.** Highlight **Send PIX Msg** and press OK.
3. Use the down navigation key to highlight the contacts in the group to which you want to send a message. Press OK **MARK** to place a checkmark next to each selection to send messages to.
4. Press the left soft key **Done** after selecting up to 10 contacts.
5. The CREATE PIX MSG screen appears. Press the down navigation key to move the cursor into the following entry fields:
   - **Text**: Add text to the PIX Msg.
   - **PIX**: Add an image from the PIX Gallery to the message.
   - **Sound**: Add sound to the PIX Msg
   - **Subject**: Add a subject to the PIX Msg.
6. Once you've finished adding the desired content to your PIX Msg, press OK **SEND** to send the PIX Msg to the intended recipients.

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Finding a Contacts Entry

From standby mode, you can quickly open the Contacts list. Contacts is a quick way of viewing entries you've stored in the Contacts list.

1. In standby mode, press the right soft key **Contacts**. The Contact List displays.
2. In the Search field, enter the first and second letters of the name you wish to search until it is highlighted.

Editing an Existing Contact Entry

1. In standby mode, press OK **MENU**, then press 2abc **Contact List**.
2. Use the navigation key to highlight the contact list entry and press the left soft key **Edit**.
3. Use the navigation key to highlight the name, number, e-mail address, or other field that you wish to edit.
4. Press CLR to backspace and delete numbers, text, or symbols.
5. Press and hold CLR to erase all numbers in the highlighted field.
6. Use the keypad to re-enter numbers, text, or symbols.
7. When you're finished editing the entry, press OK **SAVE**. Your changes are saved.

Deleting a Contact Entry

1. In standby mode, press OK **MENU**, then press 2abc **Contact List**.
2. Use the navigation key to display the contact list entry and press OK **VIEW**.
3. Press the left soft key **Erase**.
4. A pop-up "ERASE ENTRY?" screen displays.
5. Highlight **Yes** or **No**, then press OK.

Storing Numbers After a Call

Once you've finished a call, you can store the number of the caller to your Contact List.

Note: If the call was incoming and Caller ID information was unavailable, then the store option is also unavailable.

1. After you press END to end your call, the call time, length of call and phone number appears in the display.
2. Press the right soft key **Save**. You're prompted to confirm this as a **Create New**, or **Update Existing**.
3. Follow the on-screen prompts to designate other information.

Store a number in standby mode

Store a phone number by entering the number in standby mode, then press **Save**. Follow the screen prompts to assign number types and other information.

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Speed Dialing

Note: 1-Touch, 2-Touch, and 3-Touch dialing allows you to call numbers stored in your Contact List quicker.

Speed dialing allows you to press and hold a key (or keys) to dial the number associated with those key(s). There are three types of speed dialing; **1-touch**, **2-touch**, and **3-touch dialing**.

Note: Memory location 001 is reserved for voicemail.

1-touch dialing

Call phone numbers assigned to memory locations 002 - 009 by pressing and holding the any of the 2 - 9 keys. For example, to speed dial the number assigned to location 2, press and hold 2 abc until the name and number appear in the display and the number is dialed.

2-touch dialing

Call phone numbers assigned to keys 010 through 099 by briefly pressing the first key, then pressing and holding the second key. For example, to speed dial the number assigned to 013, briefly press 1, then press and hold 3 until the number dials.

3-touch dialing

Call phone numbers assigned to memory locations 100 through 999 by briefly pressing the first and second keys, then pressing and holding the third key. For example, to dial location number 113, briefly press 1, 1, then press and hold 3 until the number dials.

Assign a speed dial location

1. In standby mode, press OK **MENU**, then press 4 **Speed Dials**. The Speed Dials screen displays with the first available number highlighted.
2. Use the navigation keys to highlight the number you wish to assign or enter the speed dial location using the keypad, press OK **SET**.
3. The **SET SPEED DIAL** screen displays.
4. Use the navigation keys to highlight the entry you want, then press OK.
5. At the pop-up screen, use the navigation key to highlight **Yes** or **No** and press OK.
6. Continue to assign speed dial entries or press the END key to return to standby mode.

Finding My Phone Number

My Number displays the ten-digit number assigned to your phone.

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**.
2. Press 9 **Phone Info**.
3. Press 1 **My Number**. The mobile device, phone number, and mobile identification number are displayed.

Section 7: Messaging

Topics Covered

- Types of Messages
- Retrieving New Messages
- Creating and Sending TXT Messages
- Creating and Sending PIX Messages
- Receiving PIX Messages
- New Sketch Messages
- Message Folders
- Changing Message Settings
- Voicemail
- E-Mail
- Mobile IM
- Chat

This section allows you to send or receive different types of messages. It also includes the features and functionality associated with messaging.

Types of Messages

Your phone is capable of sending email, text, PIX, and voicemail messages. Send email, text, PIX messages by simply entering the email address or the phone number of the recipient in the To: <.....> or Send To field when creating a new message.

Retrieving New Messages

While text messages from other phones are delivered directly to your phone, PIX messages and emails will be stored in the Inbox of the message server and the server will alert you to new messages. Therefore you need to retrieve new messages to your phone and read them on the phone.

Retrieving a Text Message

When you receive a message in standby mode, the message ringer sounds, (unless turned off), and New Text Msg appears in the display along with the closed envelope icon. The date and time of the message also appear in the display.

1. Press OK to **View Now**, or press the down navigation key to highlight **View Later** and press OK. The message is saved to your inbox where you can view it later.
2. With the message open, press the right soft key **Options** to Forward, Reply With Copy, Save Graphic, Save Sound, Save Quick Text, Lock, Add To Contacts or Message Info.
3. With the message open, press OK **REPLY** to return a message to the sender.

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Note: When viewing a TXT message, you can view the previous TXT message by pressing the left navigation key and view the next TXT message by pressing the right navigation key.

Creating and Sending TXT Messages

You can send text messages to another mobile phone or to an email address.

1. In standby mode, press OK **MENU**, then press the left navigation key to highlight **MESSAGING**, press **New Msg.** Or in standby mode, press the left soft key **Message** then press **New Msg**.
2. Press **TXT Msg** to compose a new text message.
3. Enter the phone number or email address of the recipient.
4. Press the left soft key **123** to display a pop-up menu with the options listed.
   - **Entry Mode**: Choose from Word, Abc, ABC, 123, Symbols and Shortcuts modes of text entry.
5. Press the right soft key **Add** to select from the following options:
   - **Contacts**: Choose a number from your contacts list
   - **Groups**: Choose a group or a number from your group.
   - **Recent Calls**: Choose a number from the recent calls list.
6. After selecting or entering your recipients in the **To** field, use the down navigation key, or OK key to move to the message composer.

7. In the **Text** field, compose your message using the keypad. At any point while composing a message, press the right soft key **Options** to display the following options:

- **Add**: Add information from the following categories.
  - **Graphics**: Lists preloaded and downloaded graphics.
  - **Animation**: Lists preloaded and downloaded animations.
  - **Sound**: Lists preloaded and downloaded sounds.
  - **Quick Text**: Choose from up to 12 pre-loaded messages. You can add 10 additional messages by pressing the right soft key **New** and erase messages by pressing the left soft key **Erase**.
- **Edit Text Format**: Allows you to edit the text size, alignment, style, color, and background color.
- **Save As Draft**: Save the message to your Draft folder.
- **Priority Level**: Save the message with a High or Normal priority.
- **Validity Period**: Save the message for the assigned period of time.
- **Deferred Delivery**: Save the message to be delivered at the assigned delivery date and time.
- **Enh. Delivery Ack**: Turn message delivery acknowledgement Off or On.
- **Add To Contacts**: Save the recipients number to your Contacts as a new entry or add to an existing entry.

8. Use the navigation key to highlight an option. Press OK to perform the function for the option, or to enter its sub-menu.

9. To send the message, press OK **SEND**.

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Creating and Sending PIX Messages

Note: Only available within Verizon Wireless Enhanced Services Area.

You can add sounds and attach a picture to your PIX Msg. This is also known as Multimedia Messaging (MMS).

1. In standby mode, press OK **MENU**, then press the left navigation key to highlight **MESSAGING**, press 1 **New Msg.** Or in standby mode, press the left soft key **Message** then press 1 **New Msg**.
2. Press 2 **PIX Msg** to compose a new message.
3. Enter the phone number or e-mail address of the recipient (or recipients) using the keypad.
4. Press the left soft key **123** to display a pop-up menu that provides the following options:
   - **Entry Mode**: Choose from Word, Abc, ABC, 123, Symbols and Shortcuts modes of text entry.
5. Press the right soft key **Add** to select from the following options:
   - **Contacts**: Choose a number from your contacts list
   - **Groups**: Choose a group or a number from your group.
   - **Recent Calls**: Choose a number from the recent calls list.
   - **To PIX Place**: Send the message to the PIX Place.
6. Press OK once you've finished entering the phone number(s) or email address(es).
7. In the **Text** field, compose your message.

8. Press the down navigation key to highlight the **PIX** field. Press the left soft key **My PIX** to add a PIX, and follow the prompts. Press OK to attach the highlighted object.
9. Press the up/down navigation key to highlight the **Sound** field. Press the left soft key **Sounds** to select a sound. Press the up/down navigation key to highlight the desired sound and press OK.
10. Press the down navigation key to highlight the **Subject** field. Press the left soft key **Abc** to change entry mode. Press the right soft key **Options** to **Add Quick Text**. Press the up/down navigation key to highlight the desired Quick Text phrase, and press OK.
11. Once all fields are complete, press OK to send the message to the intended recipient(s).

Receiving PIX Messages

When you receive a new PIX Msg, **NEW PIX MSG** appears in the display along with the options **View Now**, **View Later** or **Reject**.

Note: For the option **Reject** to appear in the display when you receive a PIX Msg, **Auto Receive** mode must be set to **Off** in the Message Settings menu.

1. When you receive a new PIX Msg, press OK **View Now**. Downloading... appears in the display.
2. After downloading, the image (and text if any) contained in the PIX Msg appear in the display.

3. Use the navigation keys to scroll through the message or view the entire picture if necessary.

Note: When viewing a PIX message, you can view the previous PIX message by pressing the left navigation key and view the next PIX message by pressing the right navigation key.

Receive Messages While in a Call

When you receive a message while in a call, the **NEW PIX MESSAGE** dialog box appears in the display. Press OK to clear. You can view the message without disconnecting your call by pressing **Options** and then selecting **Message**.

Reject a PIX Msg

Note: For the option **Reject** to appear in the display when you receive a PIX Msg, **Auto Receive** mode must be set to **Off** in the Message Settings menu.

This feature is currently unavailable outside of the United States.

1. When you get notification to view a new PIX Msg that you don't want to receive, press the down navigation key to highlight **Reject**.
2. Press OK to reject.

View a PIX Msg Later

1. When you receive a new PIX Msg that you would like to view later, highlight **View Later** and press OK.
2. To view the message, press the left soft key **Message**, 2abc **Inbox**.

3. Use the navigation key to highlight the unopened message, then press OK **OPEN**. The **INBOX** screen appears first with information about the PIX message. Press OK **DOWN** to download and view the PIX message.

New Sketch Messages

You can convert a picture to a black and white sketch drawing that can be sent with a message. For information on taking a picture see "Take PIX" on page 131. For information on sending the message, see "Creating and Sending PIX Messages" on page 81.

Message Folders

Your phone provides default message folders for your Text and PIX messages.

Note: To quickly view all messages in the Inbox, Sent, or Drafts folders, open one message and then press the right navigation key to view the next message or press the left navigation key to view the previous message.

Inbox

Received messages of all types are stored in the Inbox folder.

1. In standby mode, press the left soft key **Message** then press 2 abc **Inbox**. Or in standby mode, press OK **MENU** and use the left navigation key to highlight **MESSAGING** then press 2 abc **Inbox**.
2. Use the navigation key to highlight the message that you wish to view.

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3. Press OK **OPEN** to view contents of the highlighted message.
4. While viewing a message press the right soft key **Options** to display the options listed.
   - **Play Again**: Replays a PIX message.
   - **Forward**: Forward the message to another recipient.
   - **Reply With Copy**: Allows you to reply with a copy of previous message attached.
   - **Save PIX**: Saves the picture sent in a PIX message to **My PIX**.
   - **Save Graphic**: Saves the animation or graphic received with the message.
   - **Save as Ringtone**: Saves the sound received with the message in My Ringtones.
   - **Save Sound**: Saves the sound received with the message in My Sounds.
   - **Save Quick Text**: Saves the text received in the message to the Quick Text list.
   - **Lock/Unlock**: Locks the message to prevent deletion.
   - **Add To Contacts**: Save the number of the sender to your Contacts as a new entry or add to an existing entry.
   - **Message Info**: Provides the following information: From and Callback Number, Priority, Msg Type, and Size of PIX, Sound or Graphic attached to the message.
5. Press the OK **REPLY** key to return a message to the sender.
6. From the Inbox menu, press the left soft key **Erase** to delete the message from the Inbox. Highlight **Yes** to delete, or **No** to return to the Inbox menu.

Note: When Auto Erase is turned on, the oldest read TXT message is replaced by an incoming TXT message when 70 TXT messages are stored in the Inbox, and the oldest read PIX message is replaced by an incoming PIX message when 100 PIX messages are stored in the Inbox. See "Changing Message Settings" on page 90 for information on how to set Auto Erase and Auto Receive.

Sent

Your phone stores messages in the Sent folder, regardless of whether the message was successfully transmitted. Verify if and when a message or e-mail was successfully transmitted by enabling the **Enh. Delivery Ack** feature in Message Settings.

Review Messages in the Sent Folder

1. In standby mode, press the left soft key **Message** then press 3 **Sent**. Or in standby mode, press OK **MENU** and use the left navigation key to highlight **MESSAGING** then press 3 **Sent**.
2. Use the navigation key to highlight the message that you wish to review, then press OK **OPEN**.
3. While viewing the message, press the right soft key **Options** to display the options listed.
   - **Play Again**: Replays the PIX message.
   - **Forward:** Forwards the message to another recipient.
   - **Lock/Unlock**: Locks the message to prevent deletion.
   - **Save Quick Text**: Saves the Subject line in the message to the Quick Text list.
   - **Add To Contacts**: Adds the sender's information to your contact list.

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- **Message Info**: Provides the following information: TO Number, Priority, Msg Type, Size of message and PIX attachments, Status of message (e.g. Delivered or Failed) and Error Code if any.

4. Use the navigation key to highlight the desired option and press OK to perform the function for the highlighted option.
5. Press OK **RESEND** to send the message to the recipeint again.
6. From the **Sent** menu, press the left soft key **Erase** to delete the message from the Sent folder. Highlight **Yes** to delete, or **No** to return to the Sent menu.

Drafts

Draft messages are those that have been composed but never sent. You can return to the Drafts folder at any time to view, edit, or send a draft message.

Create a Draft Text Message

1. In standby mode, press OK **MENU**, then press the left navigation key to highlight **MESSAGING**, press 1 **New Msg.** Or in standby mode, press the left soft key **Message** then press 1 **New Msg**.
2. Select the type of message you want to create.
3. Enter the phone number of the recipient, then press the down navigation key.
4. Compose your message using the keypad, then press the right soft key **Options**. A pop-up menu appears in the display.

5. Scroll down with the navigation key until **Save As Draft** is highlighted, then press OK. A confirmation message appears in the display and your message is saved to the Drafts folder.

View and Edit Draft Messages

1. In standby mode, press the left soft key **Message** then press 4 **Drafts**. Or in standby mode, press OK **MENU** and use the left navigation key to highlight **MESSAGING** then press 4 **Drafts**.
2. Use the navigation key to highlight the message that you wish to view, then press OK **EDIT**. The message opens in the Text field with the message text displayed.
3. Press the **CLR** key CLR to backspace and delete any current characters in the display, if desired. Press and hold CLR to erase an complete word.
4. Press the right soft key **Options**. A pop-up menu appears in the display with the options listed.

- **Add**: Add information from the following categories.
  - **Graphics**: Lists all graphics pre-loaded and downloaded.
  - **Animation**: Lists all animations pre-loaded and downloaded.
  - **Sound**: Lists all sounds pre-loaded and downloaded.
  - **Quick Text**: Choose from up to 12 pre-loaded messages.
- **Edit Text Format**: Allows you to edit the text size, alignment, style, color, and background color.
- **Save As Draft**: Save the message to your Draft folder.
- **Priority Level**: Save the message with a High or Normal priority.
- **Validity Period**: Save the message for the assigned period of time.

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- **Deferred Delivery**: Save the message to be delivered at the assigned delivery date and time.
- **Enh. Delivery Ack**: Displays a pop-up screen notifying the message sent has been received.
- **Add to Contacts**: Save the recipients number to your Contacts as a new entry or add to an existing entry.

5. Use the navigation key to highlight the desired option. Press OK to perform the function for the highlighted option.
6. Once you've returned to the message composer, press OK to send the message, if desired.

Erase Options

You can erase unlocked messages in your Inbox, Drafts folder, or Sent folder. Locked or unread messages are not erased.

To erase messages:

1. In standby mode, press OK **MENU**, then press the left navigation key to highlight **MESSAGING**, then press the right soft key **Options**.
2. The following options are available:
   - **Erase Inbox**: Erases unlocked messages in your Inbox.
   - **Erase Sent**: Erases unlocked messages in your Sent folder.
   - **Erase Drafts**: Erases unlocked messages in your Drafts folder.
   - **Erase All**: Erases unlocked messages in all message folders (Inbox, Drafts and Sent).

Changing Message Settings

This menu allows you to define settings for messages sent or received on your phone. To access your message settings, use the following steps:

1. In standby mode, press OK **MENU**, then press the left navigation key to highlight **MESSAGING**, then press the left soft key **Settings**. Or press the left soft key **Message** and press the left soft key **Settings**.
2. Select the message type you would like to change and press OK. Choose from the following options:

- **All Msg**: Allows you make a broadcast change to all message settings.
  - **Auto Save**: Saves all messages sent. Use the navigation keys to select On, Off, or Prompt.
  - **Auto Erase**: Erases the oldest message of the same type (TXT or PIX) when the maximum number of received messages of that type is exceeded in the Inbox. For example, the oldest read TXT message is replaced by an incoming TXT message when 70 TXT messages are stored in the Inbox, and the oldest read PIX message is replaced by an incoming PIX message when 100 PIX messages are stored in the Inbox. Choose from On or Off.
  - **Quick Text**: Displays the Quick Text pre-defined entries for Text Msg and PIX Msg. Press the right soft key New to add to the Quick Text list. Enter your new text and press OK. The new Quick Text item shows in the first position of the list.
  - **Voicemail**: Enter the speed dial entry set for your voicemail.
  - **Entry Mode**: Sets the default entry mode for messaging. Choose from Word, Abc, ABC, or 123.
  - **Callback #**: Displays the callback number in the text message. Choose from On or Off.

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- **Signature**: Adds the signature text to each message sent. Choose from None or Custom.

- **Text Msg**: Allows you to customize Text Msg. settings.
  - **Auto View**: Automatically displays the text message when received. Choose from On or Off.
  - **Signature**: Adds the signature text to each message sent. Choose from None or Custom.
  - **Auto Scroll**: When enabled, advances body text automatically one line at a time.
- **PIX Msg**: Allows you to customize PIX Msg. settings.
  - **Auto Receive**: Automatically receives messages into your Inbox. Choose from On or Off.
  - **Signature**: Adds the signature text to each message sent. Choose from None or Custom.

Voicemail

New voicemail alerts are sent via an SMS text message. These messages indicate how many new and urgent voicemails are in your box. Open the text message to view the number of new and urgent voice messages in your voicemailbox. If a caller leaves a callback number, this number will also be sent via an SMS text message.

Receive Voicemail Messages

When you receive a new voicemail message you'll hear a sound and an SMS text message appears in the display.

1. Press the up/down navigation keys to select **Listen Now** or **Listen Later**.
2. Press OK.

View Voicemail Messages in the Inbox Folder

1. In standby mode, press OK **MENU**, then press the left navigation key to highlight **MESSAGING**, press 5 jkl **Voicemail**. Or press the left soft key **Message** and press 5 jkl **Voicemail**.
2. Press OK **OPEN** to dial voicemail and retrieve your message(s).

E-Mail

This menu allows you to send and receive E-Mail using Mobile Web. To use your E-Mail, follow these steps:

1. In standby mode, press OK **MENU**, then press the left navigation key to highlight **MESSAGING**, then press 6 mno **E-Mail**. Or press the left soft key **Message** and press 6 mno **E-Mail**.
2. Using the up and down navigation keys, select one of the following E-Mail providers and press OK.
   - MSN Hotmail
   - AOL Mail
   - Yahoo! Mail
   - Find More
3. Use the on-screen application specific functions and options to use the E-Mail applications.

Mobile IM

The Instant Messaging function allows you to send and receive instant messages using one of the following communities:

- AOL® Instant Messenger ™

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- MSN® Messenger Service
- Yahoo!® Messenger

Note: You must first create the Instant Message account before accessing it on your phone.

Using Mobile IM

1. In standby mode, press OK **MENU**, then press the left navigation key to highlight **MESSAGING**, then press 7 **Mobile IM**. Or press the left soft key **Message** and press 7 **Mobile IM**.
2. Highlight **Mobile IM** and press OK.
3. Select your instant message community using the left and right navigation keys and press OK.
4. Use the on-screen application specific functions and options to use the instant message applications.

Chat

You have the ability to join wireless chat rooms from your phone. Send messages including text and icons to many chat room participants or launch one-on-one (private) chat rooms.

To access a chat room from the browser:

1. In standby mode, press OK **MENU**, then press the left navigation key to highlight **MESSAGING**, then press 8 **Chat**. Or press the left soft key **Message** and press 8 **Chat**.

2. Mobile Web is launched. Using the up and down navigation keys, select one of the following chat rooms and press OK.
   - UPOC CHAT
   - LAVALIFE
   - FRIENDZ
   - LIFESTYLE
   - POWER CHAT
   - FIND MORE
3. Use the on-screen application specific functions and options to use the Chat applications.

Section 8: Changing Your Settings

Topics Covered

- My Account
- Tools
- Sound Settings
- Display Settings
- Phone Settings
- Call Settings
- Bluetooth
- Memory
- Phone Info

This section explains the sound and phone settings for your phone. It includes display settings, security settings, Bluetooth settings, call settings, and other settings associated with your phone.

My Account

The My Account menu connects to the Verizon Wireless Mobile Web. You can setup Favorites or choose from the available applications.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 1 **My Account**. The menus are listed in the display.
2. Use the navigation keys to make your selection and press OK. Follow the on-screen instructions.

Tools

The Tools menu provides the ability to access the following menus:

- **Voice Commands**: For more information see, "VoiceSignal®" on page 37.
- **Calculator**: For more information see, "Calculator" on page 136.
- **Calendar**: For more information see, "Calendar" on page 138.
- **Alarm Clock**: For more information see, "Alarm Clock" on page 141.
- **World Clock**: For more information see, "World Clock" on page 143.
- **Stop Watch**: For more information see, "Stop Watch" on page 144.
- **Notepad**: For more information see, "Notepad" on page 145.

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Sound Settings

The Sound menu provides the ability to access the following menus:

Master Volume

1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press **Master Volume**.
3. Use the **Up** and **Down** navigation keys to adjust the volume. Press the left soft key **Play** to hear the volume.
4. Press **SET** to save.

Call Sounds

Ringer Settings

1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press **Call Sounds**. Press **Call Ringtone**. Available options are:
   - **My Ringtones**: You can get new ringtones from the web or choose from the list.
   - **My Sounds**: You can record new sounds to use or choose from the list.
3. Press **Call Vibrate** to set the Call Sounds to vibrate.

Note: Call Vibrate does not turn on VibeTonz. See "VibeTonz®" on page 100 for information on how to turn on VibeTonz.

4. Press OK to save the setting. The phone returns to the Call Sound menu.

Alert Sounds

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 3 **Alert Sounds**. For the following options, you can set the tone for the message alerts. You can also set vibration on and set a reminder for messages.
   - **TXT Message**
   - **PIX Message**
   - **Voicemail Msg**
   - **Device Connect**

Keypad Volume

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 4 **Keypad Volume**.
3. Use the **Up** and **Down** navigation keys to adjust the keypad volume.
4. Press OK **SET** to save.

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Earpiece Volume

1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press **Earpiece Volume**.
3. Use the **Up** and **Down** navigation keys to adjust the keypad volume.
4. Press **SET** to save.

Service Alerts

1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press **Service Alerts**. For the following options, you can the Service Alert **On** or **Off**.
   - **ERI**
   - **Minute Beep**
   - **Call Connect**

Power On/Off

1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press **Power On/Off**. You can set the sounds for Power On and Power Off to either **On** or **Off**.

VibeTonz®

VibeTonz® makes your phone vibrate in sync with the rhythm of a selected ringtone with VibeTonz® capability.

Note: The SCH-a870 comes with pre-loaded VibeTonz® ringtones. You may experience some resonance when closing the flip of the SCH-a870 as a result of this feature.

Note: VibeTonz-enhanced ringtones display the VibeTonz icon.

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1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 3 **Sound Settings**. The **Sound Settings** menus are listed in the display.
2. Press 8 **VibeTonz**. Set the touch sensation to either **On** or **Off**.

Display Settings

The **Display** menu affects the menu style, standby mode animation, backlight settings, and more.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display.
   - **Banner**: Create your own personalized greeting that appears in the display when your phone is in standby mode or turn Off/On the ERI Banner which displays the network in which you have subscribed.
   - **Backlight**: Choose settings for the LCD or Keypad.
   - **Contrast**: Choose the setting for the front LCD

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- **Wallpaper**: Choose PIX (Pre-loaded or personal) to use as the background display for your Main LCD or Front LCD.
- **Display Themes**: Choose from 4 preset colors used for menu display.
- **Clock Format**: Choose digital or analog format for time display on Main or Front LCD.
- **Power On/Off**: Choose the media that appears in the display when you turn the phone on and off.
- **Dialing Font**: Choose a dialing font style. You can also turn hyphenation On or Off.

2. Use the navigation key to highlight the display menu that you wish to edit, then press OK.
3. Use the navigation key to select from the menu options that appear in the display, then press OK. Your settings are saved.

Banner

Banner allows you to create your own personalized greeting that appears in the display while your phone is in standby mode. Or you can display the network to which you are subscribed.

To create a personal banner:

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 1 **Banner**.
2. Press 1 **Personal** to create a customized **banner** for your handset that will appear in the display on the second line below the top status bar.

Note: Press and hold CLR to erase an existing banner, if necessary.

3. Enter a word or short phrase (12 characters or less) to appear in your phone's display when the phone is in standby mode.
4. Press OK to save the new banner.

To turn Off/On the ERI banner:

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 1 **Banner**.
2. Press 2 to set the **ERI Banner** for your handset.
3. Select On or Off and press OK to save the new setting.

Backlight

Set the **backlight** for the display or keypad to remain on for a specified period of time or to remain on as long as the flip is open.

Note: Prolonged backlight use drains your battery faster.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 2 **Backlight**. The menus listed appear in the display.

- **Display**: The following options are for the Main LCD.
  - **Duration**: Can be set to 7 seconds, 15 seconds, 30 seconds, Always On, or Always Off.

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- **Brightness**: Use the Navigation keys to adjust the brightness.

- **Keypad**: The following options are for the keypad.
  - **7 Seconds**: The backlight is on for 7 seconds.
  - **15 Seconds**: The backlight is on for 15 seconds.
  - **30 Seconds**: The backlight is on for 30 seconds.
  - **Always On**: The backlight is always on.
  - **Always Off**: The backlight is always off.

2. Use the navigation key to highlight a menu.
3. Press OK to enter the highlighted option's menu and change settings as desired.

Contrast

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 3 **Contrast**. .
2. Use the left/right navigation key to set **Contrast** level for the front LCD and press OK.

Wallpaper

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 4 **Wallpaper**. **Main Screen** and **Front Screen** appear in the display.
2. Use the navigation key to highlight **Main Screen** or **Front Screen**, then press OK.
3. Use the navigation key to highlight **My PIX** or **Pre-loaded PIX,** then press OK.

4. Use the navigation key to highlight your selection, then press OK to select the wallpaper that will appear in the Main LCD or Front LCD display while your phone is in standby mode.

Display Themes

Choose from 4 preset colors used for menu display.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 5 **Display Themes**.
2. Use the navigation keys to select the Display Theme you wish, then press OK.

Clock Format

This menu allows you to have time displayed in digital or analog format.

- Main Clock: Set to Digital, Analog, or Off
- Front Clock: Set to Digital, Analog, or Off.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 6 **Clock Format**. The **Clock Format** menus are listed in the display.
2. The following options appear in the display. Highlight one of the following options and press OK to save.
   - **Main Clock**

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- **Digital:** Time appears in digital format, for example, 12:54pm.
- **Analog**: Time appears in clock format. Digital format is still present in the display.
- **Off**: No time is displayed.

- **Front Clock**
  - **Digital:** Time appears in digital format, for example, 12:54pm.
  - **Analog**: Time appears in clock format.
  - **Off**: No time is displayed.

Power On/Off

Animation allows you to choose pre-loaded animation (displays when you turn your phone on/off) that appear in your phone's display.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 7 **Power On/Off**.
2. Use the navigation key to highlight **Power On** or **Power Off**, then press OK.
3. Use the navigation keys to select **Animation 1** or **Animation 2**, and press OK to save settings.

Dialing Font

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 4 **Display Settings**. The **Display Settings** menus are listed in the display. Press 8 **Dialing Font**.
2. The following options appear in the display:

- **Size**: numbers appear in selected font size when dialing a number. Choose Normal or Large font.
- **Style**: numbers appear in selected font style and color when dialing a number. Choose from Normal, Quill Pen, Sticky, Color Dial.
- **Hyphenation**: regardless of 'Hyphenation On-Off', Hyphen is always functioned.

3. Use the navigation keys to select dialing font preferences, then press OK.

Phone Settings

The Phone Settings menu provides the ability to access the following menus:

Standalone Mode

With **Standalone Mode** on, all RF functions for your phone are disabled, and you cannot use your phone to place or receive calls.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 jkl **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 1 **Standalone Mode**. Use the **Up** or **Down** navigation key to select **On** or **Off** and press OK.

Shortcut Key

Shortcut Key allows you to select from up to 18 applications that appear in the display when you press the down navigation key in standby mode.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display. Press 2 **Shortcut Key**.
2. Use the navigation key to select the menu item shortcut of your choice, then press OK.

Language

Change the display language from English to Spanish or vice versa using the **Language** menu.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display. Press 3 **Language**.
2. Use the navigation key to select the language of your choice, then press OK.

Location

Note: This feature is only available on the Verizon Wireless network.

The **Location** (GPS) setting identifies your location to the network. You can fully enable this setting or set GPS to work only in the case that you dial 911 from your phone.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus

are listed in the display.

2. Press 4 **Location**. The Location screen displays.
   - **Location On**: GPS location setting is on wherever the feature is available.
   - **E911 Only**: GPS location setting is on whenever you dial 911 only.
3. Use the navigation key to highlight an option.
4. Press OK to select the highlighted setting.

Security

The **Security** menu allows you to lock your phone, set restrictions, and other security options.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**.
2. Use the navigation key to highlight **Security**, press OK.
3. Enter the lock code (factory settings are the last four digits of your telephone number). The following options display:
   - **Common Code**: Common code On, uses a common password for both device and location lock code. Common code Off, uses separate passwords for both device and location.
   - **Lock Mode**: Allows you to lock the **Device** or **Location**.
   - **Edit Code**: Allows you to change the **Lock Code** for the **Device** or **Location**.
   - **Reset Phone**: All settings (except Contacts) are reset to factory default settings.

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Lock Phone

Lock Phone restricts the use of your phone with the exception of outgoing calls to 911. Lock Phone allows you to answer calls, but to place calls (except to emergency numbers) you have to unlock the phone.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 5 **Security**. You're prompted to enter the lock code. The default lock code is the last four digits of your telephone number.
3. Enter the **Lock Code**. Several security menus appear in the display.
4. Press 2 **Lock Mode**. Use the navigation key to highlight **Device** and press OK. The following options display:
   - **Lock**: Your phone returns to standby mode. The Lock Code is required immediately to access any functions, except receiving a call or placing an emergency call to 911.
   - **Unlock**: If locked, unlocks the phone.
   - **On Power Up**: The Lock Code is required whenever you power up the phone.
5. Press OK to perform the function for the highlighted option.

Lock Location

Lock Location restricts the user from changing location setting until Lock Code is entered.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 jkl **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 5 jkl **Security**. You're prompted to enter the lock code. The default lock code is the last four digits of your telephone number.
3. Enter the **Lock Code**. Several security menus appear in the display.
4. Press 2 abc **Lock Mode**. Use the navigation key to highlight **Location**. Press OK.

   The following options display:

   - **Lock**: The Lock Code is required to change Location setting.
   - **Unlock**: Allows user to have access to Location setting without Lock Code.
5. Press OK to perform the function for the highlighted option.

Edit Lock Code

The default lock code is the last four digits of your phone number. **Edit Code** allows you to change this code to a lock code of your preference.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 jkl **Phone Settings**. The **Phone Settings** menus are listed in the display.

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2. Press 5 **Security**. You're prompted to enter the lock code. The default lock code is the last four digits of your telephone number.
3. Press 3 **Edit Code**. Two options are available **Device** and **Location.** Use the navigation keys to highlight your choice and press OK.
4. At the "**ENTER NEW LOCK CODE**" or "**ENTER NEW LOCATION LOCK CODE**" prompt, enter the new lock code. You're prompted to confirm the new lock code.
5. "**DEVICE CODE SET**" or "**LOCATION LOCK CODE SET**" message appears in the display confirming that your lock code has been changed.

Note: Your phone does not allow you to view the lock code for obvious security reasons. If you change the lock code, be sure to write down or memorize the new code.

Resetting Your Phone

Reset Phone returns all setup options to their factory default.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 5 **Security**, and enter the lock code. Press 4 **Reset Phone**. A prompt appears in the display asking if you wish to restore default settings (except for the Contacts).

3. Press **Yes** to restore default settings or press **No** to return to the Security list.

Emergency

Note: Emergency number 911 is hard-coded into your phone. You can dial this number any time, even when the phone is locked or restricted. If you call 911 an audible tone is heard and an emergency prompt appears in the display for the duration of the call.

Important: DO NOT depend on this phone as a primary method of calling 911 or for any other essential or emergency communications.

Remember to always turn your phone on and check for adequate signal strength before placing a call.

Call Emergency Numbers in Lock Mode

In Lock Mode, you can dial 911 to place an emergency call.

Note: If you dial 911, your phone dials the emergency number immediately (no prompt).

System Select

The **System Select** menu allows you to set your roaming options. For information on roaming options, see "Roaming Options" on page 35.

NAM Selection

Your phone provides the option of selecting between two NAMs (Number Assignment Modules) or phone numbers. Select either NAM1 or NAM2.

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Quick Search

Quick Search is an easy way to locate contacts in your Address Book and Menu items. Quick Search default setting is **Off**. To turn **On** perform the following.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 jkl **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press 8 tuv **Quick Search**.
3. Select **On** and press the OK key.

Searching for a Contact

1. In standby mode, press the first few numeric keys that correspond to the letters of the contacts name.

   For example, to search for “Sally” you would enter

2. Press the **Up** navigation key. The contact name is highlighted.
3. Press the SEND key to call the contact.

Searching for a Menu Item

1. In standby mode, press the first few numeric keys that correspond to the letters of the Menu item name.

   For example, to search for "Inbox" you would enter

2. Press the **Down** navigation key. The menu item is highlighted.
3. Press the OK key to access the content of the menu item.

PC Connection

PC Connection allows you to select how you want your a870 to connect to your PC.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 5 **Phone Settings**. The Phone Settings menus are listed in the display.
2. Press 9 **PC Connection**.
3. Choose one of the following:
   - **USB:** allows you to connect to a PC via USB port.
   - **Bluetooth:** allow you to connect via Bluetooth.
   - **No Connection:** allows you to disable PC Connection.

Time & Date

Time & Date allows you to set the time displayed in both the front and main LCD.

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Note: If you have roamed onto an Analog network in a different time zone. This setting does not apply when you are operating on a CDMA/1X digital network.

1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Phone Settings**. The **Phone Settings** menus are listed in the display.
2. Press **Time & Date**.
3. Press **Set Time** to set the time when in Analog Mode.
   Press **Set Date** to set the date when in Analog Mode.

Note: When in Analog Mode the icon will display in the status bar.

Call Settings

The **Call Settings** menu allows you to select the method for answering incoming calls, setting redial options, setting data rates for data calls, voice privacy, and more.

Answer Options

The **Answer Options** menu allows you to select the method for answering incoming calls.

1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press **Answer Options**. The following options appear in the display:

- **Flip Open**: Calls are answered when the flip is opened.
- **Any Key**: Calls are answered when any key is pressed.
- **Send Only**: Calls are answered when the SEND key is pressed.
- **Auto Answer**: Calls are answered automatically with a 1, 3 or 5 second delay.

3. Use the navigation key to highlight the method you wish to use for answering calls, then press OK.

Auto Retry

Auto Retry automatically redials busy numbers after a preset period of time.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 mno **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 2 abc **Auto Retry**. The following options appear in the display:
   - **Off**
   - **Every 10 Seconds**
   - **Every 30 Seconds**
   - **Every 60 Seconds**
3. Highlight an option and press OK, or press CLR to return to the Call Settings menu without making a selection.

TTY Mode

Before you can use your phone with a TTY device, you'll need to enable TTY functions in the phone. See "TTY" on page 36 for more information.

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One Touch Dial

You can use this option to enable or disable the speed dialing feature.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 4 **One Touch Dial**. Select **On** or **Off**. Press OK **OK** to save.

   See "Speed Dialing" on page 75 for more information.

Voice Privacy

Note: This feature is only available on the Verizon Wireless network.

Voice Privacy (at the Enhanced setting) allows you to prevent those you call from seeing your number in their display when receiving your call. Voice privacy options are Standard and Enhanced.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 5 **Voice Privacy**. The menus listed appear in the display. **Standard** and **Enhanced** appear in the display.
3. Use the navigation key to highlight the **Voice Privacy** option of your choice, then press OK. Your settings are saved.

Call Restrictions

Call Restriction allows you to restrict outgoing and incoming calls when set to On. You can also restrict access to your Contacts list.

Note: This feature is most helpful when used in combination with Lock Phone setting.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 6 **Call Restrictions**.
3. Use the navigation key to select **Outgoing**, **Incoming**, or **Contacts**, then press OK.
4. Use the navigation key to highlight **On** or **Off**, then press OK. Your settings are saved.

Data Settings

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 6 **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press 7 **Data Settings**. The following options appear in the display. Highlight one of the following options and press OK.
   - **Data Off:** Phone operates in normal voice call mode.
   - **Data For Next Call**: Data call is enabled for next call only. Phone will reset to Data Off mode after call.

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- **Data Until Powered**: Phone will remain in Data Mode until phone is powered off.

DTMF Tones

Use this menu to set DTMF tones to Normal, or Long.

1. In standby mode, press **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press **Call Settings**. The **Call Settings** menus are listed in the display.
2. Press **DTMF Tones**. The following options appear in the display. Highlight one of the following options and press .
   - **Normal**
   - **Long**

Ringer ID

The **Ringer ID** menu allows you to set the Ringer ID option to **On** so that you can associate different ringtones with different numbers. See "Get Tunes & Tones" on page 127 for more information.

Picture ID

The **Picture ID** menu allows you to set the Picture ID option to **On** so that you can associate a picture with a Contact. See "Get PIX" on page 129 for more information

Bluetooth Settings

About Bluetooth

Bluetooth is a short-range wireless communications technology capable of exchanging information over a

distance of about 30 feet without requiring a physical connection.

Unlike infrared, you don't need to line up the devices to beam information with Bluetooth. If the devices are within a range of one another, you can exchange information between them, even if they are located in different rooms.

Note: For optimal user experience when using the Bluetooth earpiece, enable the Key/EarMic option in the Voice Commands Voice Dial menu. This will allow you to place calls with a Bluetooth earpiece using the Voice Dial feature in hands-free mode.

Bluetooth Service Profiles

Actually, the Bluetooth specification is a protocol that describes how the short-range wireless technology works, whereas individual profiles describe the services supported by individual devices. Profiles reduce the chance that different devices will not work together.

Your phone supports the following Bluetooth service profiles:

- HSP: Mono-headset profile
- SPP: Serial Port profile
- DUN: Dial-up Networking profile
- HFP: Handsfree profile*

* For vehicle/accessory compatibility, go to www.verizonwireless.com/bluetoothchart
Phone does not support Bluetooth OBEX profiles.

The following Bluetooth options are available:

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On/Off

When the Bluetooth radio is turned on, you can use the Bluetooth features available. When the Bluetooth radio is turned off, you cannot send or receive information via Bluetooth. To save battery life or in situations where radio use is prohibited, such as airline traveling, you can turn off the Bluetooth wireless technology.

1. In standby mode, press OK **MENU** key and use the right navigation key to highlight **SETTINGS & TOOLS**. Press 7 **Bluetooth**. The **Bluetooth** menus are listed in the display.
2. Press to turn Bluetooth On or Off.

Note: If activated, the Bluetooth icon displays on the top status bar.

Search

This option searches for a recognized Bluetooth wireless technology device.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 7 **Bluetooth**. The **Bluetooth** menus are listed in the display.
2. **Add New Device** is highlighted, press OK twice.

Note: If you have NOT already activated Bluetooth on the phone, the message "TURN BLUETOOTH ON?" displays. Highlight **Yes** to activate or **No** to exit and press OK.

3. A list of found Bluetooth devices will be displayed. Use the **Up** and **Down** navigation keys to highlight a Bluetooth device. Press OK to pair the devices.
4. Enter the passkey (0000 for most devices) and press OK to pair with the device you selected.

Bluetooth Settings

The Bluetooth wireless technology settings menu provides the ability to view and change the device name, show the visibility, and set the security for the device.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 7 **Bluetooth**. The **Bluetooth** menus are listed in the display.
2. Press **Settings**. The Bluetooth menu displays with the following options:
   - **My Phone Name**: allows you enter a customized name.
   - **Discovery Mode**: allows other users to see your accessibility. Select **On** for other devices to see your device, or **Off** for no visibility.
   - **My Phone Info**: shows the handset information.

Memory

The Memory menu allows you to view memory info to see how much space you've used (and have left) for stored media.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 8 **Memory**. The **Memory** menus are listed in the display. The following options are available:

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- **Memory Usage**: Allows you to view memory usage of everything stored on your phone.
- **My PIX**: Allows you to view memory usage pictures you saved in My PIX.
- **My Ringtones**: Allows you to view memory usage of ringtones you saved in My Ringtones.
- **My Sounds**: Allows you to view memory usage of sounds you saved in My Sounds.

Phone Info

The **Phone Info** menu allows you to view the software and hardware information, your assigned number, and an icon glossary for your phone.

1. In standby mode, press OK **MENU**, use the right navigation key to highlight **SETTINGS & TOOLS**. Press 9wxyz **Phone Info**. The **Phone Info** menus are listed in the display.
2. **My Number** is highlighted. Press OK to display the Mobile Device and Identification numbers.
3. Press 2abc **SW Version** to view the software, PRL, ERI, Browser, Get it Now, and Hardware version available on your phone.
4. Press 3def **Icon Glossary** to view the list of icons with a brief description.
5. Press OK to return.

Section 8

Section 9: Multimedia

Topics Covered

- Get It Now
- Get Tunes & Tones
- Get PIX
- Get Fun & Games
- Get News & Info
- Get Going
- Get Extras

This section describes how you receive tunes, tones, images, games, news and information. You can also take and send pictures from your phone.

Get It Now

The Get It Now menu provides sub-menus to Get Tunes & Tones, Get PIX, Get Fun & Games, Get News & Info, Get Going and Get Extras. You can also view memory info to see how much space you've used (and have left) for stored media. Use the following steps for each **GET IT NOW** sub-menu.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press the right soft key **Info**.

Note: You can directly access the **GET IT NOW** menu by pressing the right navigation key while in standby mode.

2. Press 1 **App. Memory** to display the memory available. Press the CLR key to return.
3. Press 2 **Content Memory** to view the memory used for the following items. Press the CLR key to return.
   - **My Ringtones**
   - **My Sounds**
   - **My PIX**
   - **Applications**
4. Press 3 **View Log** to see the file transfer activity. Press the CLR key to return.
5. Press 4 **Help** to display a list of frequently asked questions. Use the navigation key to highlight an item and press OK to display help text. Press the CLR key to return.

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Get Tunes & Tones

This menu allows you to get new tunes and tones, record new sounds, and set tunes and tones as your ringtone. It also allows you to access your music files.

Get New Ringtones

You can use this option to download new ringtones from the Internet.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. The **Get Tunes & Tones** menu is highlighted, press OK.
2. Highlight 1 **Get New Ringtones** and press OK.
3. Highlight 1 **Get New App.** and press OK.
4. You are connected to the web server and presented with available provider ringtone applications.
5. To return to standby mode, press the END key.

My Ringtones

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. The **Get Tunes & Tones** menu is highlighted, press OK.
2. Highlight 2 **My Ringtones** and press OK.
3. Select 1 **Get New Ringtones** to access the web to download new ringtones. Or if you have already downloaded ringtones, highlight your selection and press OK.
4. To return to standby mode, press the END key.

VibeTonz®

VibeTonz® brings the powerful sensation and realism of touch to your SCH-a870 handset, dramatically enhancing the quality of your communication experience. By providing the VibeTonz technology high fidelity touch sensations, the VibeTonz system allows you to interact with your phone in a way that fits your personal taste and lifestyle.

Ringers enhanced by VibeTonz technology include a track of touch sensations synchronized to the music.

To activate VibeTonz see "VibeTonz®" on page 100 for more information.

Note: VibeTonz ringtones display the VibeTonz icon.

My Sounds

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. The **Get Tunes & Tones** menu is highlighted, press OK.
2. Highlight **My Sounds** and press OK.
3. **Record New** is highlighted. Press OK to launch the **Record New** screen.
4. Press OK **REC** to begin recording.
5. Press the left soft key **Pause** to pause and resume the recording appropriately.
6. Press OK **STOP** to stop the recording and save it to My Sounds.

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Get PIX

This menu allows you to get new PIX from the internet or take new PIX using your phone's camera. You can also view the saved pictures.

Get New PIX

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 2 abc **Get PIX**.
2. To get new PIX press 1 **Get New PIX**. Press 1 **Get New App.** You are connected to the internet. Follow the on-screen prompts.

My PIX

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 2 abc **Get PIX**.
2. Press 2 abc **My PIX** to view My PIX photo gallery.
3. Use the navigation key to make your selection and press OK **View** to view the highlighted picture.
4. Press the left soft key **Camera** to activate camera.
5. Press the right soft key **Options** to select from the following options:
   - **Send**: Launches the Create PIX Msg screen.
   - **To PIX Place**: Transfers the PIX file to the online PIX Place gallery.
   - **Get New**: Launches the internet to get online pictures.
   - **Set As**: Set the picture as the Main Wallpaper, Front Wallpaper, or Picture ID for a Contact.

- **Create Postcard**: Adds text to a picture selected from the My PIX gallery.
- **Rename**: Allows you to rename the picture.
- **Lock**: Locks the picture to prevent deletion.
- **Erase**: Erases the selected picture from the gallery.
- **Erase All**: Erases all pictures from the gallery.
- **PIX Info**: Provides the name, date, time, resolution, and size.

6. Use the navigation key to make your selection and press OK.

PIX Place

View PIX in your online PIX Place gallery.

Note: You must first setup your account on the Verizon Wireless website: www.verizonwireless.com before establishing a connection.

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1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 2abc **Get PIX**.
2. Highlight **PIX Place** and press OK. The PIX Place sign-on screen displays.
3. Enter your **Mobile Numbe**r and **Password**. Use the navigation key to highlight **LOGIN** and press OK. You are now connected to your online PIX Place gallery.

Take PIX

This menu launches the camera.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 2 abc **Get PIX**.
2. Press 4 ghi **Take PIX**. The camera is now active.
3. Press the right soft key **Options**, to choose the specific camera settings. The following categories are available:
   - **Resolution**: High(640X480), Med(320X240), Low(160X120)
   - **Self Timer**: Off, 3 Seconds, 5 Seconds, 10 Seconds
   - **Flash**: Off, On, Auto, Only This Shot
   - **White Balance**: Auto, Sunny, Cloudy, Tungsten, Fluorescent
   - **Quality**: Fine, Normal, Economy
   - **Shutter Sound**: Shutter, Okay, Chime
   - **Color Effects**: Normal, Black & White, Sepia, Green, Aqua, Antique, Cool, Warm, Sketch
4. Press the left/right navigation key to zoom in or zoom out on an image.

   Press the up/down navigation key to adjust brightness.

Note: Zoom is not functional when the resolution setting is set to High(640X480).

5. Press OK **TAKE** to capture a picture. Press the right soft key **Erase** to delete it or press the left soft key **Save**. The picture is saved to the My PIX gallery.

6. To exit the camera, press the END key.

Get Fun & Games

Select from several fun and interesting applications or a broad category of games that you can play on your phone.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 3 **Get Fun & Games**.
2. Press 1 **Get New App**.
3. Use the navigation keys to make a selection and press OK.
4. Choose the charge, either Subscription or Unlimited, then press OK. Follow in screen prompts to apply.

Get News & Info

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 4 **Get News & Info**.
2. The browser is launched and a pop up screen with available applications is displayed.
3. Use the navigation key to browse the categories.
4. Once the desired category is highlighted, press OK to enter the category list.

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When you use Get News & Info, some of the keys operate differently than during a normal phone call.

It presents on-screen items in any of the following ways:

- Text or numeric input
- Links (embedded in content)
- Numbered options (some options may not be numbered)
- Simple text

You can utilize the options or links by using the soft keys.

Get Going

Download applications that keep you in touch with the world, keep you organized, and help you find the coolest spots.

1. In standby mode, press OK **MENU**, use the left navigation key to highlight **GET IT NOW**. Press 5 jkl **Get Going**.
2. **Get New App.** is highlighted. Press OK.
3. Highlight the application you wish to download and press OK.
4. Follow on screen subscription prompts and press OK. The download process begins.
5. At the "App installed successfully. Would you like to run it?" prompt, press **Yes** to launch application, or **No** to return to category list.

Note: The GET GOING menu will display all downloaded applications, with the most current download first.

Get Extras

Get Extras is a backup assistant for your Address Book. Get Extras saves your address book entries to a databases to protect them in the event that your phone is damaged or stolen.

Section 10: Tools

Topics Covered

- Voice Commands
- Calculator
- Calendar
- Alarm Clock
- World Clock
- Stop Watch
- Notepad

The topics covered in this section allow you to schedule appointments, view the calendar, set an alarm, view time zones, take notes, and perform simple math calculations.

Voice Commands

For more information see, "VoiceSignal®" on page 37.

Calculator

You can perform calculations, including addition, subtraction, multiplication and division using your phone.

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 abc **Tools**, 2 abc **Calculator**, 1 **Normal**. The Calculator opens.
2. Enter the first number in your equation using the keypad. (Numbers can be up to nine digits long.)
3. Press the right soft key **Operator** to display a pop-up menu which allows you to enter a Parenthesis or Power if desired.
4. Press # to change the sign for a number to a negative.
5. Press the * to add a decimal point.
6. Use the navigation keys to set the type of calculation that you wish to perform. Your choices are as follows:
   - **Up key:** [+] Addition
   - **Down key:** [-] Subtraction
   - **Right key:** [x] Multiplication
   - **Left key:** [÷] Division
7. Use the keypad to enter the second number into your equation.
8. Press OK to perform the calculation and view the result.

Tip

Calculates the tip and determine how much each person should pay for the meal.

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 abc **Tools**, 2 abc **Calculator**, 2 abc **Tip**. The **Tip Calculator** opens.
2. Populate the following fields. Use the up/down navigation key to move from one field to another:
   - **Bill**: enter the amount of the bill.
   - **Tip**: enter the tip percentage.
   - **# Paying**: enter the amount of people paying.

Note: Press the *+ key to enter a decimal.

3. The tip is automatically calculated and shown in the lower half of the screen.
4. Press **Cancel** to exit.

Converter

The **Conversion** menu provides the following conversion categories:

- Temperature
- Length
- Weight
- Area
- Volume

- Currency

To convert any of the above categories, do the following:

1. Scroll to the conversion feature you wish to use and press the OK key.
2. Use the **Left** or **Right** navigation keys to select the **From** units of money or measure for the quantity you want converted.
3. Enter the quantity you want converted in the **From** text box.

Note: Press the * key to enter a decimal.

4. Use the Left or Right navigation keys to select the **To** units of money or measure for the quantity you want converted.
5. The converted amount or quantity is automatically shown in the **To** text box.
6. Press **Cancel** to exit.

Calendar

Schedule up to eight events for any day by indicating each event's start and end time. Set alarms for events so that you can be alerted before an event takes place. Events scheduled for future dates automatically appear on your **Today** events schedule for the present day.

Add a new event

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 abc

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Tools 3 **Calendar**. The calendar appears in the display with the current date highlighted.

2. To view available options, press the right soft key **Options**. A pop-up menu appears in the display that contains the menu items.
   - **Go To Date**: Go to any date that you specify.
   - **Go To Today**: View today's events.
   - **Erase Old**: Select a past event to delete.
   - **Erase All**: Delete all events in your calendar
3. Press the left soft key **Add** to add a new event.
4. The **Appointment Name** field is highlighted. Enter the name and use the down navigation key to move to the following fields:

- **Start Date**: Enter the start date for the event.
  - **Start Time**: Enter the start time for the event (hh:mm).
  - **am/pm**: Select from am or pm for the start time.
- **End Date**: Enter the end date for the event.
  - **End Time**: Enter the end time for the event (hh:mm).
  - **am/pm**: Select from am or pm for the end time.
- **Alert**: Sets the alarm for the event. Select from Tone, Vibrate, or Light Only.
- **Reminder**: Set the reminder to sound before the event takes place. Select Off, Once, Every 2 minutes, or Every 15 minutes.
- **Alert Time**: Set the Alert Time to sound up to 1 day before the event.

5. Press OK **SAVE** to save the event.

View an event

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2abc **Tools** 3def **Calendar**.
2. A calendar appears in the display with the current date highlighted.
3. Use the navigation keys to highlight the date containing the event that you wish to view. Press the right soft key **Options**.

Tip: Use the volume key to move between months in the calendar.

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4. In the pop-up menu that appears in the display, use the navigation key to highlight **Go To Date**, then press OK.
5. Enter the desired date in the box, then press OK. The month that you entered appears in the display with the event date highlighted.
6. Press OK **VIEW** to view event details for the date.
7. To edit the event, press the left soft key **Edit**. Make changes, then press OK **SAVE**.
8. Press the right soft key **Options**. A pop-up menu appears in the display.
9. To erase the current event, press 2abc **Erase**. A pop-up menu appears with **Yes** highlighted. press OK to erase, or highlight **No** to cancel.

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Select **Erase All** to erase all events from your phone. A pop-up menu appears with **Yes** highlighted. press OK to erase, or highlight **No** to cancel.

10. To see the selected date in a month view, press 1 **Monthly**.

Alarm Clock

Your phone has an alarm clock that can be set to go off once, or recur daily at a specific time. Once set, the alarm clock is easy to change or turn off.

Set An Alarm

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 **Tools** 4 **Alarm Clock**. The **Alarm Clock** menu displays with the **Alarm 1** highlighted.
2. The following options appear in the display:
   - **Alarm 1**
   - **Alarm 2**
   - **Alarm 3**
3. Use the navigation key to highlight the alarm that you wish to enable, then press OK. The Set Alarm (1, 2, or 3 depending on your selection) screen appears in the display.
4. The Alarm field is highlighted. Use the left/right navigation keys to select **On** or **Off**.
5. Press the down navigation key to highlight the **Time** field, then enter the time (hh:mm) that you wish for the alarm to sound.

6. Press the down navigation key once to highlight the am/pm field. Use the left/right navigation keys to select **am** or **pm**.
7. Press the down navigation key once to highlight the **Frequency** field. Use the left/right navigation keys to set the frequency (occurrence) of the alarm. Below lists and defines the options for this field.
   - **Once**: The alarm sounds only once, at the time specified.
   - **Daily**: The alarm sounds every day at the time specified.
   - **Mon.-Fri.**: The alarm sounds Monday through Friday at the time specified.
   - **Weekends:** The alarm sounds Saturday through Sunday at the time specified.
8. Press the down navigation key once to highlight the first **Ringer** field. Use the left/right navigation keys to set the ringer to Tone, Vibrate, or Light Only.
9. If you selected Tone, press the down navigation key again to highlight the second field. Use the left/right navigation keys to set the alert tone to VZW Default Tone, or select a tone from your My Ringtones or My Sounds folders.
10. When all fields have correct information entered, press OK **SAVE** to save your settings.

Disable an alarm before it sounds

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2abc **Tools** 4ghi **Alarm Clock**. The **Alarm Clock** menu displays with the **Alarm 1** highlighted.

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2. Use the navigation keys to highlight the alarm you wish to disable, then press the right soft key **Options**. A pop-up menu appears in the display.
3. Press 1 **Off** to turn the highlighted alarm off. Press 2 **Reset** to reset the highlighted alarm or press 3 **Reset All** to reset all of the alarms.

Snooze

When an alarm sounds, a menu screen displays that allows you to either turn the alarm off or to have the alarm ring again after 5 minutes. This is called Snooze.

To use this feature follow these steps:

1. Set one of your phone's 3 alarms. For more information about setting an alarm, see "Set An Alarm" on page 141.
2. When an alarm sounds, use the up/down navigation key to highlight **Snooze** or **Dismiss**. To snooze, highlight **Snooze** and press OK to set it to ring again after 5 minutes. Or, highlight **Dismiss** to turn the alarm off completely. The alarm turns off and the standby screen displays.

World Clock

World Clock allows you to view the time of day or night in any part of the world.

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 **Tools** 5 **World Clock**.
2. Use the left soft key **Cities** to display the 46 supported cities. Press OK to save your entry.

3. Press the right soft key **Options** to view the following options:
   - **Set As Local Time**: Sets the time according to the city chosen in the Cities field.
   - **DST On**: Sets the Daylight Savings time option.
4. You can scroll through other cities by pressing the navigation keys.
5. Press END to return to standby mode.

Stop Watch

This feature allows you to use a stopwatch. Press the OK **START** to start the stopwatch. Press OK **STOP** to stop stopwatch. Press the right soft key **Reset** to erase recorded stopwatch time.

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2abc **Tools** 6mno **Stop Watch**. The **Stop Watch** appears in the display.
2. Press the OK **START** to start the stopwatch.
3. Press OK **STOP** to stop stopwatch.
4. Press the right soft key **Reset** to erase recorded stopwatch time.

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Notepad

Create and store notes in Notepad. Return to Notepad anytime to review and edit your notes.

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 abc **Tools** 7 pqrs **Notepad**.
2. If you have any stored notes, they appear as a list in the display. If this is your first time in Notepad, **No Notes** displays.
3. To add a new memo, press the left soft key **Add**, then enter the memo using the keypad.
4. While entering a memo, press the left soft key **Abc**, to display a pop-up menu with the following text entry modes
   - **Word**
   - **Abc**
   - **ABC**
   - **123**
   - **Symbols**
5. Use the navigation keys to select the other available text entry modes of 123, Word, and Symbol, or press CLR to exit the pop-up menu.
6. When you're finished entering details for the note, press OK. The note is saved.

Review, Add, Edit, and Erase Memos

1. In standby mode, press OK **MENU**, then press the right navigation key to **SETTINGS & TOOLS**. Press 2 abc **Tools** 7 pqrs **Notepad**. The **Note Pad** menu opens. If you have any stored notes, they appear as a list in the display.
2. With a memo highlighted, press the right soft key **Options.** A pop-up menu with the options listed in the following table appears in the display:
   - **Edit**: Edit the note currently highlighted or appearing in the display.
   - **Erase**: Erase the note currently highlighted or appearing in the display.
   - **Erase All**: Erase all notes.
   - **Lock/Unlock**: Locks messages. When a message is locked it cannot be deleted until it is unlocked.
3. Use the navigation keys to highlight an option or press CLR to exit the pop-up menu.
4. Press OK to perform the highlighted option's function.

Section 11: Mobile Web

Topics Covered

- Mobile Web
- Launching Mobile Web
- Exit Mobile Web
- Navigate the Web
- Mobile Web Soft keys
- Links
- Place a Call While Using Mobile Web

This section outlines the available gaming options and accessories for your phone. For more information, contact your service provider.

Mobile Web

Mobile Web allows you to surf the web from your wireless phone.

If you receive a call while using Mobile Web, the web session is suspended during the call. Once the call ends, your Mobile Web session resumes where you left off.

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

Any time the service indicator icon is visible, you are connected to the Internet and billed accordingly. Rates and prices vary according to your service contract. For further information on billing contact Verizon Wireless.

Launching Mobile Web

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

1. In standby mode, press the up navigation key. Mobile Web and a list of categories (representing one or more web sites) appears in the display.
2. Use the navigation key to browse the categories.
3. Once the desired category is highlighted, press OK to enter the category list.

Exit Mobile Web

To exit the Mobile Web, press the END key.

Navigate the Web

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

When you use Mobile Web, some of the keys operate differently than during a normal phone call.

Mobile Web presents on-screen items in any of the following ways:

- Text or numeric input
- Links (embedded in content)
- Numbered options (some options may not be numbered)
- Simple text

You can act on the options or links by using the soft keys.

Mobile Web Soft Keys

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

At the bottom of the Mobile Web display contains the browser commands. The left and right soft keys on the keypad are used to perform the commands in the display. These are called "soft keys" because their function changes depending where you are in the application.

How Mobile Web keys work

The following table lists Mobile Web keys and functions.

Navigation Key: Use the navigation key to browse lists and highlight options.

CLR Key: A browser back-up key. Press once to back up one page. Press and hold to go back to Mobile Web home page.

Press to clear the last number, letter, or symbol entered. Press and hold to completely clear the display.

Asterisk/Shift Key: Press before entering text to enable upper case characters (in Abc mode).

0/Next Key: Press to enter a zero (0), or to display another word in the dictionary when in Word entry mode.

Pound/Space Key: Press to insert a space when entering text.

Numbers 1 - 9: Use the number keys to select items in a menu if they are numbered.

END Key: Press to exit Mobile Web and return the phone to standby mode.

Left Soft Key: Press the left soft key to go to the highlighted web link and/or perform the function above it in the display.

Right Soft Key: The right soft key is the Menu key. Press this key to display a pop-up menu with several options.

SEND Key: Press to dial a highlighted number.

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Links

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

Links can serve several purposes, such as jumping to a different page, to a different site, or initiating a phone call. Links are underlined (__). Normally, the left soft key is used to select a highlighted link.

Place a Call While Using Mobile Web

Note: This feature is currently unavailable outside of the United States. Only available within the Verizon Wireless Enhanced Services Area.

You can place a call while using Mobile Web if the website supports this feature. Press the appropriate soft key to call the number. In most cases you can also press SEND to call the number. The Internet connection terminates when you initiate the call. After you end the call, your phone returns to standby mode.

Section 12: Health and Safety Information

Topics Covered

- Health and Safety Information
- Consumer Information on Wireless Phones
- Road Safety
- Operating Environment
- Using Your Phone Near Other Electronic Devices
- Potentially Explosive Environments
- Emergency Calls
- FCC Notice and Cautions
- Other Important Safety Information
- Product Performance
- Availability of Various Features/Ring Tones
- Battery Standby and Talk Time
- Battery Precautions
- Care and Maintenance

This section outlines the safety precautions associated with using your phone. These safety precautions should be followed to safely use your phone

Health and Safety Information

Exposure to Radio Frequency (RF) Signals

Certification Information (SAR)

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the exposure limits for radio frequency (RF) energy set by the Federal Communications Commission (FCC) of the U.S. government. These FCC exposure limits are derived from the recommendations of two expert organizations, the National Counsel on Radiation Protection and Measurement (NCRP) and the Institute of Electrical and Electronics Engineers (IEEE). In both cases, the recommendations were developed by scientific and engineering experts drawn from industry, government, and academia after extensive reviews of the scientific literature related to the biological effects of RF energy.

The exposure limit set by the FCC for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate (SAR). The SAR is a measure of the rate of absorption of RF energy by the human body expressed in units of watts per kilogram (W/kg). The FCC requires wireless phones to comply with a safety limit of 1.6 watts per kilogram (1.6 W/kg). The FCC exposure limit incorporates a substantial margin of safety to give additional protection to the public and to account for any variations in measurements.

SAR tests are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined

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at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a new model phone is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each model phone are performed in positions and locations (e.g. at the ear and worn on the body) as required by the FCC. For body worn operation, this phone has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

The FCC has granted an Equipment Authorization for this mobile phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. The maximum SAR values for this model phone as reported to the FCC are:

- **Head:** 1.20 W/kg.
- **Body-worn:** 1.23 W/kg.

SAR information on this and other model phones can be viewed on-line at www.fcc.gov/oet/fccid. To find information that pertains to a particular model phone, this site uses the phone FCC ID number which is usually printed somewhere on the case of the phone. Sometimes

it may be necessary to remove the battery pack to find the number. Once you have the FCC ID number for a particular phone, follow the instructions on the website and it should provide values for typical or maximum SAR for a particular phone. Additional product specific SAR information can also be obtained at www.fcc.gov/cgb/sar.

UL Certified Travel Adapter

The Travel Adapter for this phone has met UL 1310 safety requirements. Please adhere to the following safety instructions per UL guidelines.

FAILURE TO FOLLOW THE INSTRUCTIONS OUTLINED MAY LEAD TO SERIOUS PERSONAL INJURY AND POSSIBLE PROPERTY DAMAGE

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS.

DANGER - TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CAREFULLY FOLLOW THESE INSTRUCTIONS.

FOR CONNECTION TO A SUPPLY NOT IN THE U.S.A., USE AN ATTACHMENT PLUG ADAPTOR OF THE PROPER CONFIGURATION FOR THE POWER OUTLET.

Consumer Information on Wireless Phones

The U.S. Food and Drug Administration (FDA) has published a series of Questions and Answers for consumers relating to radio frequency (RF) exposure from wireless phones. The FDA publication includes the following information:

What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called "cell," "mobile," or "PCS" phones. These types of wireless phones can expose the user to measurable radio frequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called "cordless phones," which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures well within the FCC's compliance limits.

Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radio frequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may

occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radio frequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the

federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones.

FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the primary subject of the safety questions discussed in this document.

What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radio frequency energy (RF)

exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phones RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years.

However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but ten or more years' follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radio frequency energy (RF).

FDA has been a leading participant in the World Health Organization international Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research

and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

What steps can I take to reduce my exposure to radio frequency energy from my wireless phone?

If there is a risk from these products - and at this point we do not know that there is - it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radio frequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

- If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

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What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radio frequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure.

Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000. They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

Do hands-free kits for wireless phones reduce risks from exposure to RF emissions?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that hands-free kits reduce risks. Hands-free kits can be used with wireless phones for convenience and comfort. These systems reduce the absorption of RF energy in the head because the phone, which is the source of the RF emissions, will not be placed against the head. On the other hand, if the phone is mounted against the waist or other part of the body during use, then that part of the body will absorb more RF energy. Wireless phones

marketed in the U.S. are required to meet safety requirements regardless of whether they are used against the head or against the body. Either configuration should result in compliance with the safety limit.

Do wireless phone accessories that claim to shield the head from RF radiation work?

Since there are no known risks from exposure to RF emissions from wireless phones, there is no reason to believe that accessories that claim to shield the head from those emissions reduce risks. Some products that claim to shield the user from RF absorption use special phone cases, while others involve nothing more than a metallic accessory attached to the phone. Studies have shown that these products generally do not work as advertised. Unlike "hand-free" kits, these so-called "shields" may interfere with proper operation of the phone. The phone may be forced to boost its power to compensate, leading to an increase in RF absorption. In February 2002, the Federal trade Commission (FTC) charged two companies that sold devices that claimed to protect wireless phone users from radiation with making false and unsubstantiated claims. According to FTC, these defendants lacked a reasonable basis to substantiate their claim.

What about wireless phone interference with medical equipment?

Radio frequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac

pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a compatible hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

Additional information on the safety of RF exposures from various sources can be obtained from the following organizations:

- FCC RF Safety Program: http://www.fcc.gov/oet/rfsafety/
- Environmental Protection Agency (EPA): http://www.epa.gov/radiation/
- Occupational Safety and health Administration's (OSHA): http://www.osha.gov/SLTC/radiofrequencyradiation/index.html

- National institute for Occupational Safety and health (NIOSH): http://www.cdc.gov/niosh/topics/emf/
- World health Organization (WHO): http://www.who.int/peh-emf/
- International Commission on Non-Ionizing Radiation Protection: http://www.icnirp.de
- National Radiation Protection Board (UK): http://www.hpa.org.uk/radiation/
- Updated 7/16/2003: US Food and Drug Administration http://www.fda.gov/cellphones

Road Safety

Your wireless phone gives you the powerful ability to communicate by voice, almost anywhere, anytime. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. When using your wireless phone behind the wheel of a car, practice good common sense and remember the following tips:

1. Get to know your wireless phone and its features, such as speed dial and redial. If available, these features help you to place your call without taking your attention off the road.
2. When available, use a hands-free device. If possible, add an additional layer of convenience and safety to your wireless phone with one of the many hands free accessories available today.

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3. Position your wireless phone within easy reach. Be able to access your wireless phone without removing your eyes from the road. If you get an incoming call at an inconvenient time, let your voicemail answer it for you.
4. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow, ice and even heavy traffic can be hazardous.
5. Do not take notes or look up phone numbers while driving. Jotting down a "to do" list or flipping through your address book takes attention away from your primary responsibility, driving safely.
6. Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.
7. Do not engage in stressful or emotional conversations that may be distracting. Make people you are talking with aware you are driving and suspend conversations that have the potential to divert your attention from the road.
8. Use your wireless phone to call for help. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies. Remember, it is a free call on your wireless phone!

9. Use your wireless phone to help others in emergencies. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
10. Call roadside assistance or a special non-emergency wireless assistance number when necessary. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency number.

"The wireless industry reminds you to use your phone safely when driving."

For more information, please call 1-888-901-SAFE, or visit our web-site www.wow-com.com

Provided by the Cellular Telecommunications & Internet Association.

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Operating Environment

Remember to follow any special regulations in force in any area and always switch your phone off whenever it is forbidden to use it, or when it may cause interference or danger. When connecting the phone or any accessory to another device, read its user's guide for detailed safety instructions. Do not connect incompatible products.

As with other mobile radio transmitting equipment, users are advised that for the satisfactory operation of the equipment and for the safety of personnel, it is recommended that the equipment should only be used in the normal operating position (held to your ear with the antenna pointing over your shoulder if you are using an external antenna).

Using Your Phone Near Other Electronic Devices

Most modern electronic equipment is shielded from radio frequency (RF) signals. However, certain electronic equipment may not be shielded against the RF signals from your wireless phone. Consult the manufacturer to discuss alternatives.

Pacemakers

Pacemaker manufacturers recommend that a minimum distance of 15 cm (6 inches) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker.

These recommendations are consistent with the independent research and recommendations of Wireless Technology Research.

Persons with pacemakers:

- should always keep the phone more than 15 cm (6 inches) from their pacemaker when the phone is switched on.
- should not carry the phone in a breast pocket.
- should use the ear opposite the pacemaker to minimize potential interference.

If you have any reason to suspect that interference is taking place, switch your phone off immediately.

Hearing Aid Compatibility with Mobile Phones

When some mobile phones are used near some hearing devices (hearing aids and cochlear implants), users may detect a buzzing, humming, or whining noise. Some hearing devices are more immune than others to this interference noise, and phones also vary in the amount of interference they generate.

The wireless telephone industry has developed ratings for some of their mobile phones, to assist hearing device users in finding phones that may be compatible with their hearing devices. Not all phones have been rated. Phones that are rated have the rating on their box or a label on the box.

The ratings are not guarantees. Results will vary depending on the user's hearing device and hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

M-Ratings: Phones rated M3 or M4 meet FCC requirements and are likely to generate less interference to hearing devices than phones that are not labeled. M4 is the better/higher of the two ratings.

T-Ratings: Phones rated T3 or T4 meet FCC requirements and are likely to be more usable with a hearing device's telecoil ("T Switch" or "Telephone Switch") than unrated phones. T4 is the better/higher of the two ratings. (Note that not all hearing devices have telecoils in them.)

Hearing devices may also be measured for immunity to this type of interference. Your hearing device manufacturer or hearing health professional may help you find results for your hearing device. The more immune your hearing aid is, the less likely you are to experience interference noise from mobile phones.

Other Medical Devices

If you use any other personal medical devices, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information. Switch your phone off in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

Vehicles

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also

consult the manufacturer of any equipment that has been added to your vehicle.

Posted Facilities

Switch your phone off in any facility where posted notices require you to do so.

Potentially Explosive Environments

Switch your phone off when in any area with a potentially explosive atmosphere and obey all signs and instructions. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death.

Users are advised to switch the phone off while at a refueling point (service station). Users are reminded of the need to observe restrictions on the use of radio equipment in fuel depots

(fuel storage and distribution areas), chemical plants or where blasting operations are in progress.

Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Emergency Calls

This phone, like any wireless phone, operates using radio signals, wireless and landline networks as well as user-programmed functions, which cannot guarantee

connection in all conditions. Therefore, you should never rely solely on any wireless phone for essential communications (medical emergencies, for example).

Remember, to make or receive any calls the phone must be switched on and in a service area with adequate signal strength. Emergency calls may not be possible on all wireless phone networks or when certain network services and/or phone features are in use. Check with local service providers.

To make an emergency call:

1. If the phone is not on, switch it on.
2. Key in the emergency number for your present location (for example, 911 or other official emergency number). Emergency numbers vary by location.
3. Press the Send key.

If certain features are in use (call barring, for example), you may first need to deactivate those features before you can make an emergency call. Consult this document and your local cellular service provider.

When making an emergency call, remember to give all the necessary information as accurately as possible. Remember that your phone may be the only means of communication at the scene of an accident; do not cut off the call until given permission to do so.

Restricting Children's access to your Phone

Your phone is not a toy. Children should not be allowed to play with it because they could hurt themselves and others, damage the phone or make calls that increase your phone bill.

FCC Notice and Cautions

FCC Notice

The phone may cause TV or radio interference if used in close proximity to receiving equipment. The FCC can require you to stop using the phone if such interference cannot be eliminated.

Vehicles using liquefied petroleum gas (such as propane or butane) must comply with the National Fire Protection Standard (NFPA-58). For a copy of this standard, contact the National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269, Attn: Publication Sales Division.

Cautions

Any changes or modifications to your phone not expressly approved in this document could void your warranty for this equipment, and void your authority to operate this equipment. Only use approved batteries, antennas and chargers. The use of any unauthorized accessories may be dangerous and void the phone warranty if said accessories cause damage or a defect to the phone.

Although your phone is quite sturdy, it is a complex piece of equipment and can be broken. Avoid dropping, hitting, bending or sitting on it.

Other Important Safety Information

- Only qualified personnel should service the phone or install the phone in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty applicable to the device.

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- Check regularly that all wireless phone equipment in your vehicle is mounted and operating properly.
- Do not store or carry flammable liquids, gases or explosive materials in the same compartment as the phone, its parts or accessories.
- For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including both installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If wireless equipment is improperly installed and the air bag inflates, serious injury could result.
- Switch your phone off before boarding an aircraft. The use of wireless phone in aircraft is illegal and may be dangerous to the aircraft's operation.
- Failure to observe these instructions may lead to the suspension or denial of telephone services to the offender, or legal action, or both.

Product Performance

Getting the Most Out of Your Signal Reception

The quality of each call you make or receive depends on the signal strength in your area. Your phone informs you of the current signal strength by displaying a number of bars next to the signal strength icon. The more bars displayed, the stronger the signal.

If you're inside a building, being near a window may give you better reception.

Understanding the Power Save Feature

If your phone is unable to find a signal after 15 minutes of searching, a Power Save feature is automatically activated. If your phone is active, it periodically rechecks

service availability or you can check it yourself by pressing any key.

Anytime the Power Save feature is activated, a message displays on the screen. When a signal is found, your phone returns to standby mode.

Understanding How Your Phone Operates

Your phone is basically a radio transmitter and receiver. When it's turned on, it receives and transmits radio frequency (RF) signals. When you use your phone, the system handling your call controls the power level. This power can range from 0.006 watts to 0.2 watts in digital mode.

Maintaining Your Phone's Peak Performance

For the best care of your phone, only authorized personnel should service your phone and accessories. Faulty service may void the warranty.

There are several simple guidelines to operating your phone properly and maintaining safe, satisfactory service.

- If your phone is equipped with an external antenna, hold the phone with the antenna raised, fully-extended and over your shoulder.
- Do not hold, bend or twist the phone's antenna, if applicable.
- Do not use the phone if the antenna is damaged.
- If your phone is equipped with an internal antenna, obstructing the internal antenna could inhibit call performance.
- Speak directly into the phone's receiver.

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- Avoid exposing your phone and accessories to rain or liquid spills. If your phone does get wet, immediately turn the power off and remove the battery.

Availability of Various Features/Ring Tones

Many services and features are network dependent and may require additional subscription and/or usage charges. Not all features are available for purchase or use in all areas. Downloadable Ring Tones may be available at an additional cost. Other conditions and restrictions may apply. See your service provider for additional information.

Battery Standby and Talk Time

Standby and talk times will vary depending on phone usage patterns and conditions. Battery power consumption depends on factors such as network configuration, signal strength, operating temperature, features selected, frequency of calls, and voice, data, and other application usage patterns.

Battery Precautions

- Avoid dropping the cell phone. Dropping it, especially on a hard surface, can potentially cause damage to the phone and battery. If you suspect damage to the phone or battery, take it to a service center for inspection.
- Never use any charger or battery that is damaged in any way.
- Use the battery only for its intended purpose.
- If you use the phone near the network's base station, it uses less power; talk and standby time are greatly affected by the signal strength on the cellular network and the parameters set by the network operator.

- Follow battery usage, storage and charging guidelines found in the user's guide.
- Battery charging time depends on the remaining battery charge and the type of battery and charger used. The battery can be charged and discharged hundreds of times, but it will gradually wear out. When the operation time (talk time and standby time) is noticeably shorter than normal, it is time to buy a new battery.
- If left unused, a fully charged battery will discharge itself over time.
- Use only Samsung-approved batteries and recharge your battery only with Samsung-approved chargers. When a charger is not in use, disconnect it from the power source. Do not leave the battery connected to a charger for more than a week, since overcharging may shorten its life.
- Do not use incompatible cell phone batteries and chargers. Some Web sites and second-hand dealers, not associated with reputable manufacturers and carriers, might be selling incompatible or even counterfeit batteries and chargers. Consumers should purchase manufacturer or carrier recommended products and accessories. If unsure about whether a replacement battery or charger is compatible, contact the manufacturer of the battery or charger.
- Extreme temperatures will affect the charging capacity of your battery: it may require cooling or warming first.
- Do not leave the battery in hot or cold places, such as in a car in summer or winter conditions, as you will reduce the capacity and lifetime of the battery. Always try to keep the battery at room temperature. A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Li-ion batteries are particularly affected by temperatures below 0 °C (32 °F).
- Do not place the phone in areas that may get very hot, such as on or near a cooking surface, cooking appliance, iron, or radiator.

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- Do not get your phone or battery wet. Even though they will dry and appear to operate normally, the circuitry could slowly corrode and pose a safety hazard.
- Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes a direct connection between the + and - terminals of the battery (metal strips on the battery), for example when you carry a spare battery in a pocket or bag. Short-circuiting the terminals may damage the battery or the object causing the short-circuiting.
- Do not permit a battery out of the phone to come in contact with metal objects, such as coins, keys or jewelry.
- Do not crush, puncture or put a high degree of pressure on the battery as this can cause an internal short-circuit, resulting in overheating.
- Dispose of used batteries in accordance with local regulations. In some areas, the disposal of batteries in household or business trash may be prohibited. For safe disposal options for Li-Ion batteries, contact your nearest Samsung authorized service center. Always recycle. Do not dispose of batteries in a fire.

Care and Maintenance

Your phone is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you fulfill any warranty obligations and allow you to enjoy this product for many years

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and liquids contain minerals that will corrode electronic circuits.
- Do not use the phone with a wet hand. Doing so may cause an electric shock to you or damage to the phone.

- Do not use or store the phone in dusty, dirty areas, as its moving parts may be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When the phone warms up to its normal operating temperature, moisture can form inside the phone, which may damage the phone's electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the phone. Wipe it with a soft cloth slightly dampened in a mild soap-and-water solution.
- Do not paint the phone. Paint can clog the device's moving parts and prevent proper operation.
- Do not put the phone in or on heating devices, such as a microwave oven, a stove or a radiator. The phone may explode when overheated.
- If your phone has an external antenna, use only the supplied or an approved replacement antenna. Unauthorized antennas or modified accessories may damage the phone and violate regulations governing radio devices.
- If the phone, battery, charger or any accessory is not working properly, take it to your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.

Section 13: Warranty Information

Topics Covered

- Standard Limited Warranty

This section explains the warranty information for your new phone.

Standard Limited Warranty

What is Covered and For How Long? SAMSUNG TELECOMMUNICATIONS AMERICA, L.P. ("SAMSUNG") warrants to the original purchaser ("Purchaser") that SAMSUNG's Phones and accessories ("Products") are free from defects in material and workmanship under normal use and service for the period commencing upon the date of purchase and continuing for the following specified period of time after that date:

Phone	1 Year
Batteries	1 Year
Leather Case/ Pouch	90 Days
Holster	90 Days
Other Phone Accessories	1 Year

What is Not Covered? This Limited Warranty is conditioned upon proper use of Product by Purchaser. This Limited Warranty does not cover: (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, or modification of any part of Product, including antenna, or cosmetic damage; (b) equipment that has the serial number removed or made illegible; (c) any plastic surfaces or other externally exposed parts that are scratched or damaged due to normal use; (d) malfunctions resulting from the use of Product in conjunction with accessories, products, or

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ancillary/peripheral equipment not furnished or approved by SAMSUNG; (e) defects or damage from improper testing, operation, maintenance, installation, or adjustment; (f) installation, maintenance, and service of Product, or (g) Product used or purchased outside the United States or Canada. This Limited Warranty covers batteries only if battery capacity falls below 80% of rated capacity or the battery leaks, and this Limited Warranty does not cover any battery if (i) the battery has been charged by a battery charger not specified or approved by SAMSUNG for charging the battery, (ii) any of the seals on the battery are broken or show evidence of tampering, or (iii) the battery has been used in equipment other than the SAMSUNG phone for which it is specified.

What are SAMSUNG's Obligations? During the applicable warranty period, SAMSUNG will repair or replace, at SAMSUNG's sole option, without charge to Purchaser, any defective component part of Product. To obtain service under this Limited Warranty, Purchaser must return Product to an authorized phone service facility in an adequate container for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase, the serial number of Product and the sellers' name and address. To obtain assistance on where to deliver the Product, call Samsung Customer Care at 1-888-987-4357. Upon receipt, SAMSUNG will promptly repair or replace the defective Product. SAMSUNG may, at SAMSUNG's sole option, use rebuilt, reconditioned, or new parts or components when repairing any Product or replace Product with a rebuilt, reconditioned or new Product. Repaired/replaced leather cases, pouches and holsters will be

warranted for a period of ninety (90) days. All other repaired/replaced Product will be warranted for a period equal to the remainder of the original Limited Warranty on the original Product or for 90 days, whichever is longer. All replaced parts, components, boards and equipment shall become the property of SAMSUNG. If SAMSUNG determines that any Product is not covered by this Limited Warranty, Purchaser must pay all parts, shipping, and labor charges for the repair or return of such Product.

WHAT ARE THE LIMITS ON SAMSUNG'S WARRANTY/LIABILITY?

EXCEPT AS SET FORTH IN THE EXPRESS WARRANTY CONTAINED HEREIN, PURCHASER TAKES THE PRODUCT "AS IS," AND SAMSUNG MAKES NO WARRANTY OR REPRESENTATION AND THERE ARE NO CONDITIONS, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT, INCLUDING BUT NOT LIMITED TO:

- THE MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR ANY PARTICULAR PURPOSE OR USE;
- WARRANTIES OF TITLE OR NON-INFRINGEMENT;
- DESIGN, CONDITION, QUALITY, OR PERFORMANCE OF THE PRODUCT;
- THE WORKMANSHIP OF THE PRODUCT OR THE COMPONENTS CONTAINED THEREIN; OR
- COMPLIANCE OF THE PRODUCT WITH THE REQUIREMENTS OF ANY LAW, RULE, SPECIFICATION OR CONTRACT PERTAINING THERETO.

NOTHING CONTAINED IN THE INSTRUCTION MANUAL SHALL BE CONSTRUED TO CREATE AN

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EXPRESS WARRANTY OF ANY KIND WHATSOEVER WITH RESPECT TO THE PRODUCT. ALL IMPLIED WARRANTIES AND CONDITIONS THAT MAY ARISE BY OPERATION OF LAW, INCLUDING IF APPLICABLE THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY LIMITED TO THE SAME DURATION OF TIME AS THE EXPRESS WRITTEN WARRANTY STATED HEREIN. SOME STATES/PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. IN ADDITION, SAMSUNG SHALL NOT BE LIABLE FOR ANY DAMAGES OF ANY KIND

RESULTING FROM THE PURCHASE, USE, OR MISUSE OF, OR INABILITY TO USE THE PRODUCT OR ARISING DIRECTLY OR INDIRECTLY FROM THE USE OR LOSS OF USE OF THE PRODUCT OR FROM THE BREACH OF THE EXPRESS WARRANTY, INCLUDING INCIDENTAL, SPECIAL, CONSEQUENTIAL OR SIMILAR DAMAGES, OR LOSS OF ANTICIPATED PROFITS OR BENEFITS, OR FOR DAMAGES ARISING FROM ANY TORT (INCLUDING NEGLIGENCE OR GROSS NEGLIGENCE) OR FAULT COMMITTED BY SAMSUNG, ITS AGENTS OR EMPLOYEES, OR FOR ANY BREACH OF CONTRACT OR FOR ANY CLAIM BROUGHT AGAINST PURCHASER BY ANY OTHER PARTY. SOME STATES/PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO

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